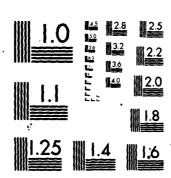
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CACDA JIFFY III WAR GAME VOLUME V PROGRAMMERS MANUAL

Technical Report 9-80



UNITED STATES ARMY COMBINED ARMS CENTER

COMBINED ARMS

COMBAT DEVELOPMENT ACTIVITY

COMBINED ARMS STUDIES AND ANALYSIS ACTIVITY

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Technical Report TR 9-80 October 1980

Combined Arms Studies and Analysis Activity
US Army Combined Arms Combat Developments Activity
Fort Leavenworth, Kansas 66027

CACDA JIFFY III WAR GAME VOLUME V PROGRAMMERS MANNUAL



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FOR EWORD

The Jiffy III War Game model was used in the development of the SCORES Europe III scenario, which provides the combat developments community with a common base of assumptions, threat forces, weapons, organizations, terrain, and tactics for the 1986 timeframe. The 1977 version of the Jiffy was extensively modified and improved for the Europe III work. This report documents the Jiffy III model as used for Europe III and supersedes CACDA Jiffy War Game Documentation, Technical Manuals TR 2-77, TR 3-77, and TR 4-77. This report documents all the changes and improvements completed through April 1980.

There are five volumes of Jiffy III War Game documentation. The first volume is the Executive Summary. Volume II is the Methodology, which describes the overall Jiffy III War Game methodology including detailed descriptions of the combat assessment equations. The computer calculates the attritions based on these equations. The unclassified portions of the data are given in Volume II. Volume III contains classified data as required for the Jiffy III model. Volume IV is the User's Manual, which contains a discussion of the manual aspects and the automated features of the gaming process and exemplifies the relationship between them through some sample runs. Volume V, the Programmer's Manual, consists of descriptions, and FORTRAN code of all programs and routines associated with the Jiffy III game.

This report was compiled principally by Dr. Channing L. Pao, Dr. Robert J. Schwabauer, Mr. James H. Kennington and Mr. Willian D. Relph. The compilers wish to acknowledge the SCORES gaming staff of the Combined Arms Combat Development Activity who served as consultants.

ABSTRACT

This report is one of a set of five volumes produced to document the combat assessment methodologies and automated features of the Combined Arms Combat Developments Activity (CACDA) Jiffy III war gaming process. The Jiffy process was originally developed to support the TRADOC Scenario Oriented Recurring Evaluation System (SCORES) scenario development and force evaluation efforts. In 1978, the 1977 version of the Jiffy was extensively modified and improved to support Europe III scenario gaming. This report documents the Jiffy model used for that gaming. Volume II of this report contains the methodologies used in the automated routines of the Jiffy III Game. An unclassified data base, which was developed for test and demonstration purposes, is presented in Volume II. The classified data used in the Jiffy III Game during secure production runs, and their sources, are published separately as Volume III to keep the methodology volume unclassified. The other three volumes in the set are the Executive Summary (Volume I), the User's Manual (Volume IV), and the Programmer's Manual (Volume V).

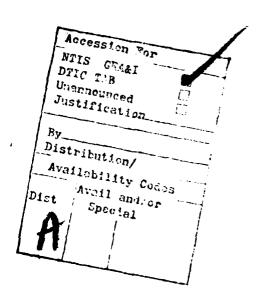


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CACDA JIFFY III WAR GAME PROGRAMMERS MANUAL

- 1. SCOPE. This manual was prepared to document the computer programs associated with the CACDA "Jiffy" war gaming process. The documentation of each subroutine and program includes a discussion of the functions performed by the routine. Descriptions, logic flow diagrams and a list of variables are provided in appendixes. The entire Jiffy listing of the FORTRAN code is given in appendix M. This program was subjected to extensive review and debugging in December 1979. No significant model changes were required as a result of the sensitivity analysis and review. The program listings are from a printout dated April 1980.
- 2. GENERAL. The interactive programs and data files that support the CACDA "Jiffy" war gaming process reside in permanent file storage on the Control Data Corporation (CDC) 6400/6500 multiprocessor computer located at Fort Leavenworth, Kansas. The programs are written in FORTRAN and are machine dependent due to extensive use of CDC Extended FORTRAN file handling features. There are basically two groups of programs that support the CACDA "Jiffy" war gaming process:
 - o a set of four programs that generate and maintain files necessary for force structure
 - o create programs that initialize force structure generation files and history files
 - o the Jiffy Game combat assessment program.

The four force structure generation programs are small programs that allow the gamers to build interactively a hierarchy of files based on the Army's concept of Tables of Organization and Equipment (TOE) with which they can generate task organized forces for combat assessments in the Jiffy Game. The Jiffy Game operates on these forces and determines the number of personnel casualties and weapon system losses each force suffers in combat. In addition, the Jiffy Game generates a file containing a history of the forces and the losses they incurred for the combat it has processed.

3. FORCE STRUCTURE GENERATION PROGRAMS.

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a. <u>General</u>. A hierarchy of four interactive programs has been developed to provide nontechnical military personnel with the capability to develop systematically a set of data files from which they can generate task organized forces for assessment evaluation in the Jiffy Game. The force structure generation is based on the US Army TOE standard requirements codes (SRCs). The SRCs define the types and quantities of weapon systems found in specific subunit organizations; e.g., an infantry squad or a tank platoon. The first program of the force generation

hierarchy interactively develops a data base file of SRCs for each force. Since there is little variation in the composition of these subunit SRCs, the SRC data base, once completed, will be readily available for immediate application to any Jiffy Game-supported study. The second of the force generation programs uses the SRC data base to build interactively a file of the combat units through specification of a unique name and all SRCs that compose each unit. The file of units is then task organized into higher echelon organizations called parent units. A file of the parent units is created interactively by the third program of the hierarchy. Finally, the information on the SRC, unit, and parent unit files is consolidated into a file of the forces to be considered for combat assessments in the Jiffy Game.

b. File Organization. The type of files used in the force structure generation process and the Jiffy Game HISTORY file are CDC index sequential-random access files. These files are created and manipulated by file handling macros unique to the CDC operation systems. The files used for this application are random access files whose keys are contained in the first 20 characters (two words) of the record (the HISTORY file uses 30 character keys). The keys are arranged in sequential order in the random access index table, which allows sequential, in addition to random, accessing of the records on the file. The record formats for the four force generation files and the HISTORY file are illustrated in figure 1. Before any operations may be performed on these files, they must be created and put into permanent file storage space. This initialization process is accomplished through the execution of a small file creation program, which simply specifies the parameters essential for proper file definition. The FORTRAN programs for the creation of all five index sequential-random access files are contained in appendix A to this volume.

c. Program Descriptions.

(1) SRC program. The SRC program interactively builds the TOE SRC data base file. As noted above, this file is an indexed sequential-random access file. Each record of the SRC file contains an SRC identification word (1 to 10 alphanumeric characters) and up to 22 groups of weapon system item codes (Jiffy III Game Volume III, Appendix A) and the quantity of each type of weapon system assigned to the SRC. The format of the records of the SRC file is illustrated in figure 1(a). In addition to creating the SRC data base file, the SRC program has the capablity to review any SRC that exists in the data base, add new SRCs to the file, change the quantity and/or type of personnel or weapon systems in a given SRC, delete specified SRCs, and list all SRCs with the quantity and type of weapon systems and personnel found in them. A logic flow diagram of the SRC program, a listing of the program variables, and a list of the program code are provided in appendix B to this volume.

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EW TYPE	QTY OF ITEM CODE #80			
TEMPORARY COMBAT INTENSITY LEVEL	-		FILE.	
PERMANENT COMBAT INTENSITY PERCENT I FVEI CREMENTH LEVEI COMBAT LEVEI			WORDS 6 TO 90 SAME AS FORCE FILE	
PERMANENT COMBAT INTENSIT			TO 90 SAMI	
AT 100%	*	Record	WORDS 6	e Record
FPS CRITICAL AT 100% INCIDENT		FORCE File Record	FORCE	HISTORY File Record
SECTOR		(d) F(SECTOR	(e)
FORCE	QTY OF	2	LINU	
UNIT	OTY OF QTY OF	74	PARENT	
PARENT	QTY OF ITEM CODE	13	CRI TICAL INCIDENT	
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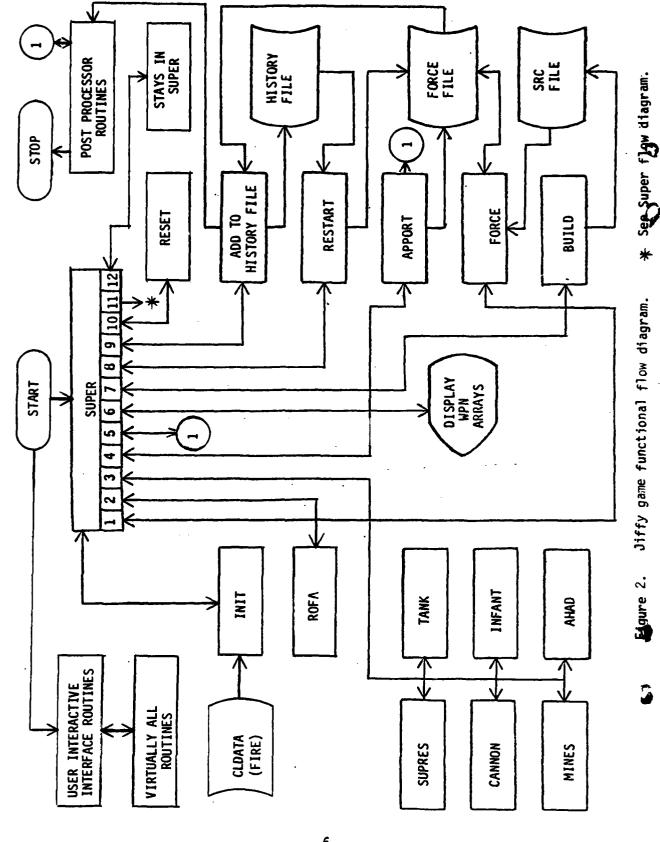
Figure 1. Jiffy Game file formats.

- (2) UNIT program. Execution of the UNIT program is the second step in the force structure generation process. The UNIT program accesses the information stored on the SRC file and defines the combat units to be gamed. The program builds an indexed sequential-random access file whose records correspond to the combat units. The format of the UNIT file records is given in figure 1(b). Each record contains the unit name (1 to 10 alphanumeric characters) and up to 22 valid SRCs (the SRCs must exist on the SRC file). The SRCs specified with a unit correspond to the subunit organizations that compose the unit. For example, the SRCs specified for a tank company could possibly be a tank platoon SRC (specified three times) and a tank company headquarters SRC. In addition to building the UNIT file, the UNIT program has the capability to review the SRCs in a unit already on file, add more SRCs to a unit already on file, delete specified units, delete particular SRCs from specific units, and list all units with their SRCs. A logic flow diagram of the UNIT program, a listing of the program variables and the program code are provided in appendix C to this volume.
- (3) PARENT program. The PARENT program is the third part of the force structure generation process. The PARENT program is the tool with which the military gamers can task organize interactively the combat units previously defined on the UNIT file into a file of higher echelon organizations, or parent units. The parent units are created by the program with the definition of a unique parent unit name (1 to 10 alphanumeric characters) and the specification of up to 18 valid units within its organization. The format for the records of the PARENT file is illustrated in figure 1(c). In addition to creating the PARENT file, the program may be used to review the units of parent units already on file, add new parent organizations to the file, add new units to existing parent units, delete specified parent units, delete given units of specific parent units, and list all parent organizations with their subordinate units. A logic flow diagram of the PARENT program, the PARENT program variables, and program listing are provided in appendix D to this volume.
- (4) FORCE program. The FORCE program, the final step in the force structure process, interactively creates a file of the forces to be assessed in the combat routines of the Jiffy Game. The FORCE program consolidates the information defined on the files in the previous three steps of the process. The FORCE file consists of records for each unit of both forces. The format of the records of the FORCE file is presented in figure 1(d). The first 10 words of the record define the unit and its combat environment. Although some of the parameters (sector, critical incident, combat intensity) are redefined in the Jiffy Game during the actual gaming, the first 10 words are initialized in the FORCE program. The remaining 80 words (words 11 to 90 on the record) contain the quantity and indicate the type of weapon system in the unit. The position of the word denotes the type of weapon system (item code equals record word number minus 10). The value of the word is the quantity of that type of weapon system. Besides generating the FORCE file, the FORCE program provides the capabilities to add units of a specified new parent unit to the force file using information

stored in the other three files, delete all the units of a specific parent unit to the file, change the unit effectiveness, combat intensity level, and type (AD, AH, artillery, or maneuver), of any unit on the file, and list all parent units with their subordinate units, and their subordinate units and their corresponding quantities of weapon systems. It should be noted that when a unit is added to the file, the gamer is asked to input its unit effectiveness, which is the percentage of a unit's existing firepower score compared to its 100 percent firepower score. The number of each type of weapon system loaded into a unit equals the number of that weapon allocated to the unit at 100 percent strength multiplied times the unit's effectiveness. For example, if a unit had 16 tanks at 100 percent strength and it was specified to be a 50 percent unit effectiveness, only eight tanks would be loaded into the unit. A logic flow diagram of the FORCE program, a list of the program variables, and program code are provided in appendix E to this volume.

4. JIFFY GAME.

- a. General. The Jiffy Game is a two-sided, interactive war game that operates on the FORCE file, the product of the force structure generation process, and determines potential rates of advance, personnel casualties and weapon system losses incurred by the units of the two forces on the FORCE file as a result of the five types of combat it plays: indirect fire, minefields, armor/ antiarmor, dismounted infantry, and attack helicopter/air defense. In addition to assessing combat, the Jiffy Game handles other administrative functions associated with the war game, such as combat loss apportionment, maintaining the FORCE file, updating the HISTORY file as required, and outputing the statistics of the battles. The Jiffy Game is written in FORTRAN and has utilized some of the features of CDC Extended FORTRAN. The program has been segmented to fit into 150k words of core on the CDC 6400 for interactive processing. The CPU processing time under the NOS/BE operating system varies with the size of the forces being gamed, but typical times vary between 10 and 60 CPU seconds per sector of combat games.
- b. <u>Program Descriptions</u>. A functional flow diagram of program SUPER representing the overall Jiffy Game, is presented in figure 2. The following paragraphs describe each subroutine of the Jiffy Game and discuss the functions performed by the routines.
- (1) Program SUPER. Program SUPER is the main program of the Jiffy game. The primary function of the main program is to serve as a control point from which a gamer can branch to the other subroutines. During execution the gamer resides at a control point known as the DECISION POINT. At this point, the gamer has a choice of the 12 decisions presented in table 1. Each gamer decision causes SUPER to branch according to the



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Table 1. Control point gamer decisions.

	Number	Description of Decision
D .	1	Load forces into a sector
	2	Calculate rate of advance
ŋ	3	Assess combat
•	4	Apportion combat losses to units
	5	Output battle statistics
	6	Display weapon arrays
	7	Add SRCs to TOE file
	8	Restart at a previously gamed CI
	9	Update history file - end game
	10	Reset Element Array from input file
	11	Review previous run
	12	Reset terminal output file

flow diagram, as shown in appendix F, and return to the DECISION POINT. In addition, SUPER performs the following functions:

- o Calls INIT for data and array initialization.
- o Displays the game instructions, if requested.
- o Inspects the type of weapon systems being played and determines the appropriate combat assessment routine to which to branch.
- o Accepts inputs of TACAIR losses, which are determined external to the Jiffy Game.
- o Records the forces remaining at the end of a critical incident on the HISTORY file.
- Outputs the cumulative battle statistics at the end of critical incident.
- o Provides the gamers with the capability to reinitialize the forces at some previously gamed critical incident on the HISTORY file.

The program logic flow, a list of program variables, and program codes are provided in appendix F.

- (2) Pre-Assessment subroutines. Four subroutines are grouped in this category because they perform pre-assessment functions. These subroutines initialize the array in data, and determine the overall and degraded fire power, artillery missions, and suppression factors. Other major functions are to determine and display for the sector being gamed, the rate of advance, the length of the battle and fire power ratio, etc. Four subroutines are EW, INIT, ROFA, and SUPRES. The description, program logic flow, and a list of program variables, of all pre-assessment subroutines are provided in appendix G.
- (3) Assessment subroutines. Seven subroutines are grouped in the assessment category because they are performed as combat assessment functions. These are AHAD, CANNON, CLGP, FASCAM, INFANT, MINE and TANK. The description, program logic flow, and a list of program variables are provided in appendix H.
- (4) Record-keeping subroutines. Fourteen subroutines are grouped in this category because they apportion casualties in the Jiffy combat assessment routines to the units on the FORCE file. These subroutines are: APPORT, BUILD, CKACI, CKSTOR, CLEAR, COMBINE, DISPLAY, FNDCI, FORE, LOSS, NEWHIS, RESET, RESTART and SHOWCI. The description, program logic flow, and list of program variables of all record-keeping subroutines are provided in appendix I.

- (5) Interactive interface subroutines. Ten subroutines are grouped in this category because they perform interactive functions. These functions are to write on the ANSWER file and REVIEW files. It checks for the end of ANSWER file and informs the gamer. Ten subroutines are CKANS, GFT4, HOW, JOHN, REEDA, REED4, REVIEW, SHORT, SHOWIT and TERM. The description, an overview flow diagram, and a list of program variables are provided in appendix J.
- (6) Functions subroutines. Two subroutines are grouped in this category because they perform the subfunction used to convert a five subscript variable to a single subscript variable, program variables. These are INDEXS and NUMB. The description, a logic flow, and list of program variables are provided in appendix K.
- (7) Postprocessor subroutines. Nineteen subroutines are grouped in this category because they produce specified game output reports as well as cumulative output reports and the killer victim matrix. These subroutines are ACCUM, BULLET, CIARM, COMMIT, GITNMS, HEADER, KILCAT, KILVIC, NEWPAG, OPTLER, POST, RATIOS, RECVRY, REPORT, SUMIOT, SUMUP, TRACE, TRANS and XOUT. The description, an overview logic flow, list of program variables and a sample output from the post processor are provided in appendix L.
- (8) Program listings. Appendix M contains the complete Jiffy III program listings. This program has been debugged and reviewed several times. A sample output run is shown in appendix L. The general program structure is the same as for the original 1977 version, although many improvements and modifications have been made as discussed in volume II. Users should note that most of the unclassified data are hardwired in the program code; so each time data changes are made, changes are required in the program. The Jiffy model continues to be modified and changed as new systems are developed and incorporated in the program. The complete program listings in appendix M are the latest program as of February 1980.

REFERENCES

1. USA CACDA, CACDA Jiffy War Game Programers Manual, Technical Report TR 3-77, March 1977.

APPENDIX A INDEXED SEQUENTIAL FILE CREATION PROGRAMS

O

APPENDIX A

INDEXED SEQUENTIAL FILE CREATION PROGRAMS

This appendix contains the program code listings of the five programs used to create the indexed sequential-random access files used in the CACDA "Jiffy" War Gaming process. The FORTRAN code listings are presented in figures A-1 through A-5 for the SRC, UNIT, PARENT, FORCE, and HISTORY files, respectively.

Figure A-1. Create program for SRC file.

PROGRAM CREATE(INPUT,OUTPUT)
DIMENSION IFIT(35),IARRAY(46)
CALL FILEIS(IFIT,3LLFN,5LTAPE9,3LWSA,IARRAY,3LMNR,460,2LRL,460,3LMRL,
460,2LKA,IARRAY(1),2LKP,0,2LKL,20,3LDKI,2LNO)
CALL STOREF(IFIT,3LERL,100)
CALL OPENM(IFIT,3LNEW)
CALL PUT(IFIT)
CALL CLOSEM(IFIT)
STOP 123
END

Figure A-2. Create program for UNIT file.

PROGRAM CREATE (INPUT,OUTPUT)
DIMENSION IFIT(35),IARRAY(24)
CALL FILEIS(IFIT,3LLFN,5LTAPE9,3LWSA,IARRAY,3LMNR,240,2LRL,240,3LMRL,
240,2LKA,IARRAY(1),2LKP,0,2LKL,20,3LDKI,2LNO)
CALL STOREF(IFIT,3LERL,100)
CALL OPENM(IFIT,3LNEW)
CALL PUT(IFIT)
CALL CLOSEM(IFIT)
STOP 123
END

Figure A-3. Create program for PARENT file_

```
PROGRAM CREATE(INPUT,OUTPUT)
DIMENSION IFIT(35), IARRAY(20)
CALL FILEIS(IFIT,3LLFN,5LTAPEY,3LWSA,IARRAY,3LMNR,200,2LRL,200,3LMRL,
200,2LKA,IARRAY(1),2LKP,0,2LKL,20,3LDKI,2LNO)
CALL STOREF(IFIT,3LERL,100)
CALL OPENM(IFIT,3LNEW)
CALL PUT(IFIT)
CALL CLOSEM(IFIT)
STOP 123
END
```

Figure A-4. Create program for FORCE file.

```
PROGRAM CREATE(INPUT,OUTPUT)
DIMENSION IFIT(35), IARRAY(90)
CALL FILEIS(IFIT,3LLFN,5LTAPE9,3LWSA,IARRAY,3LMNR,900,2LRL,900,3LMRL,
900,2LKA,IARRAY(1),2LKP,0,2LKL,20,3LDKI,2LNO)
CALL STOREF(IFIT,3LREL,100)
CALL OPENM(IFIT,3LNEW)
IARRAY(1)=IARRAY(2)=IARRAY(5)="INITIAL"
IARRAY(4)=0
IARRAY(3)="B"
DO 10 I=6,90
10 IARRAY(I)=0
CALL PUT(IFIT,IARRAY,900,IARRAY(1))
CALL CLOSEM(IFIT)
STOP 123
END
```

Figure A-5. Create program for HISTORY file.

```
PROGRAM CREATE(INPUT,OUTPUT)
DIMENSION IFIT(35),IARRAY(90)
CALL FILEIS(IFIT,3LLFN,5LTAPE9,3LWSA,IARRAY,3LMNR,900,2LRL,900,3LMRL,
900,2LKA,IARRAY(1),2LKP,0,2LKL,30,3LDKI,2LNO)
CALL STOREF(IFIT,3LERL,100)
CALL OPENM(IFIT,3LNEW)
IARRAY(1)="INITIAL"
IARRAY(2)="INITIAL"
IARRAY(3)="INITIAL"
DO 10 I=4,90

10 IARRAY(I)=0
CALL PUT(IFIT,IARRAY,900,IARRAY(1))
CALL CLOSEM(IFIT)
STOP 123
END
```

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APPENDIX B
SRC PROGRAM

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APPENDIX B

SRC PROGRAM

B-1. PROGRAM DESCRIPTION. The SRC program interactively builds the TOE SRC data base file, which contains an identification word and the quantity of each type of weapon system assigned to the SRC. The logic flow diagram, a list of variables, and a listing of FORTRAN codes of the SRC program are given in this appendix.

B-2. SUBROUTINE VARIABLE.

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<u>Variable</u>	<u>Description</u>
ACHG	Weapons to change (delete)
AFRR	Weapons not found to change (delete)
AHOLD	Keeps the force type
AJ	Quantity of weapon to be added
AM	Weapon to be added
ARRAY	Work storage array (SRC File)
ARRAY (1)	Force type (key)
ARRAY (2)	SRC name (key)
ARRAY (3)	First weapon on record
ASRC	SRC name specified
ICK	Action code
IDO	Weapon listed
IFND	Number of weapons to be changed
	(deleted)
IFIT	FIT array (SRC File)
K	Number of weapons not found
NN	Weapon position on record
NY	Answer to question
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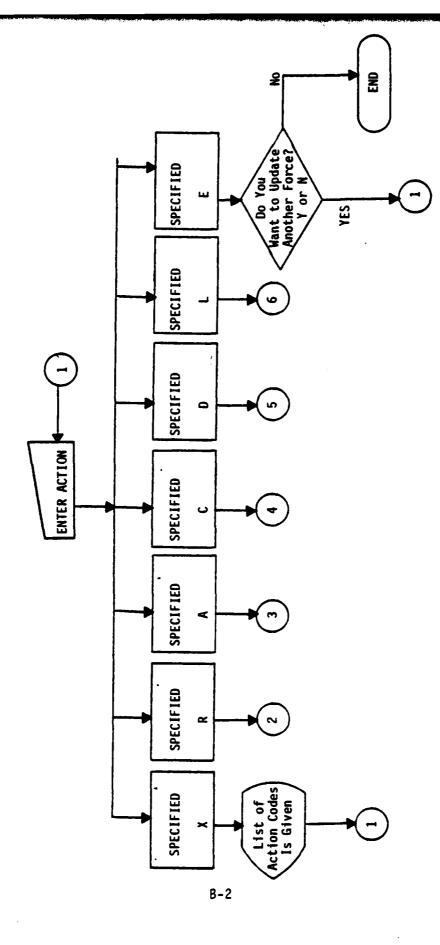


Figure B-1 SRC program logic flow diagram. (continued next page)

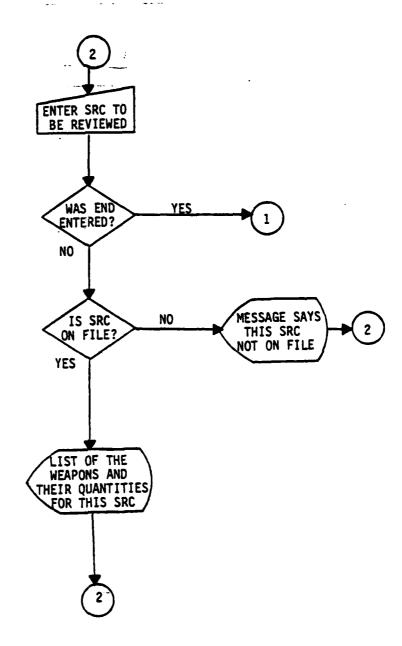


Figure 3-1 SRC program logic flow diagram (continued).

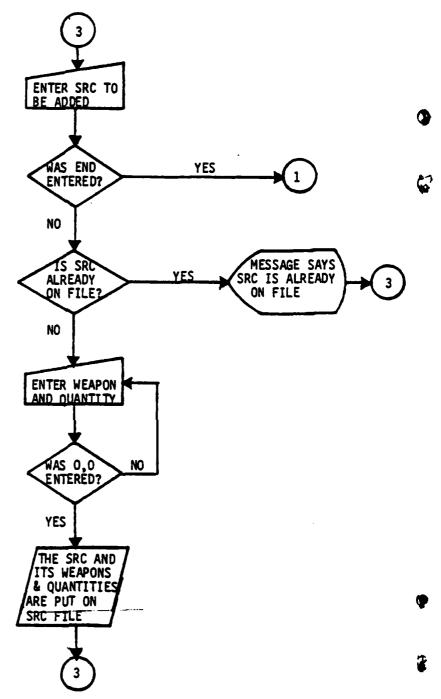


Figure B-1 SRC program logic flow diagram (continued).

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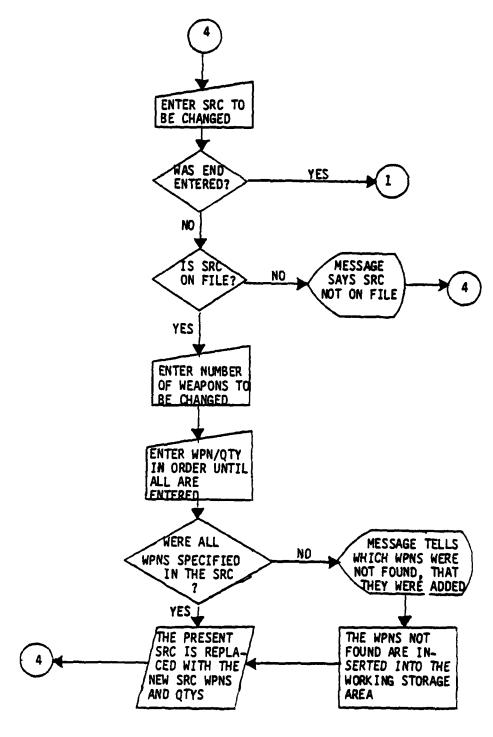


Figure B-1 SRC program logic flow diagram (continued).

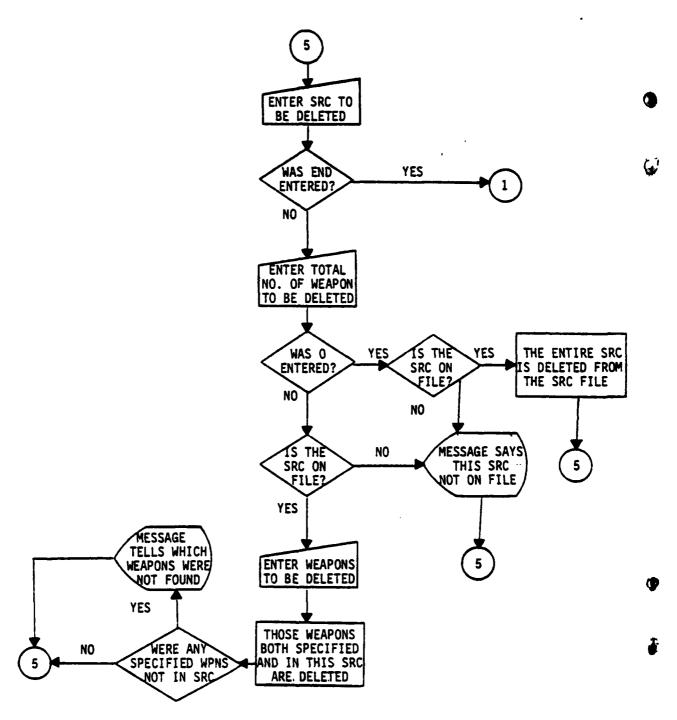


Figure B-1 SRC program logic flow diagram (continued).

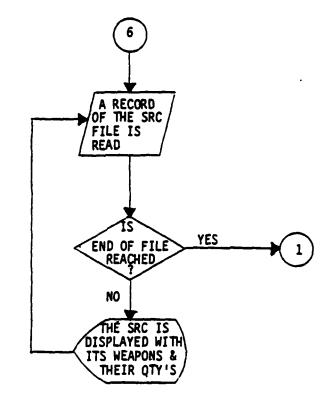


Figure B-1 SRC program logic flow diagram (concluded).

APPENDIX C UNIT PROGRAM

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APPENDIX C

UNIT PROGRAM

C-1. SUBROUTINE DESCRIPTION. The UNIT program builds an indexed sequential-random access file whose records correspond to the combat units, and accesses the information stored on the SRC file. A list of variables and the logic flow diagram are given in this appendix.

C-2. Program Variables.

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O	Variable	Description
·	AERR ARRAY	SRCs already existing in unit Work storage area (SRC File)
	ARRAY (1)	Force type (key)
	ARRAY (2)	SRC name (key)
	ARRAY (3)	First weapon on record
	BBERR	SRCs that do not exist
	BCHG	SRCs to be added (deleted)
	BERR	SRCs to be added
	BFRC	SRC not on file
	BHOLD	Keeps the force type
	BRRAY	Work storage area (Unit File)
	BRRAY (1)	Force type (key)
	BRRAY (2)	Unit name (key)
	BRRAY (3)	First SRC on record
	BUNIT	Unit name specified
	I	SRC position on record
	ICK	Action Code
	IFIT	FIT array (SRC File)
	K	Number of SRCs not found
	M	Number of SRCs to be added
	N	Number of SRCs to be added
	NEND	Number of SRCs to be changed (deleted)
	NFIT	FIT array (Unit File)
	NN	Number of SRCs that do not exist
	NY	Answer to question

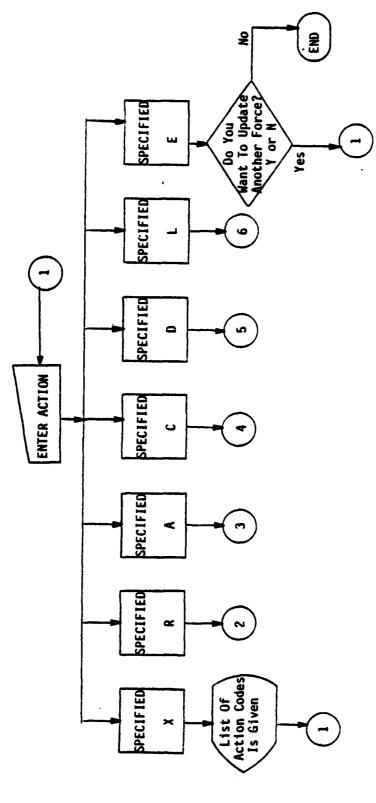


Figure C-1 UNIT program logic flow diagram. (Continued next page)

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ENTER UNIT TO BE REVIEWED WAS ENTERED? YES NO IS UNIT ON FILE? MESSAGE SAYS THIS UNIT NOT ON FILE YES LIST OF THE UNIT AND ITS SRCS

Figure C-1 UNIT program logic flow diagram (continued).

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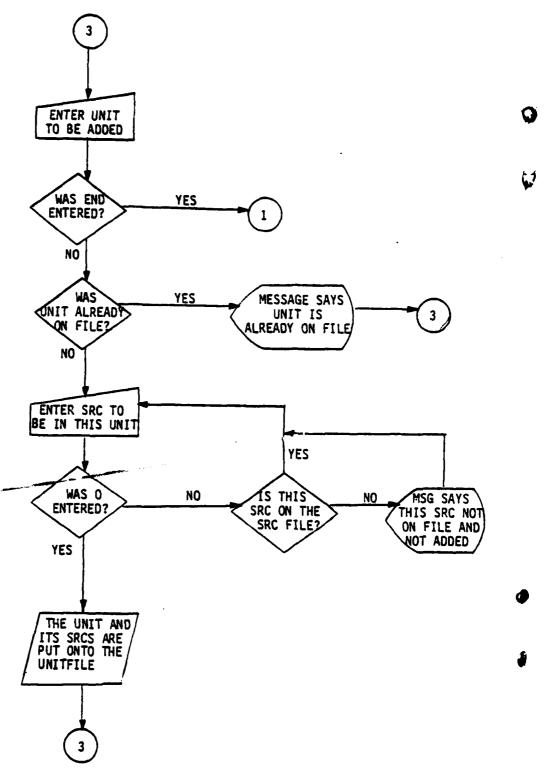
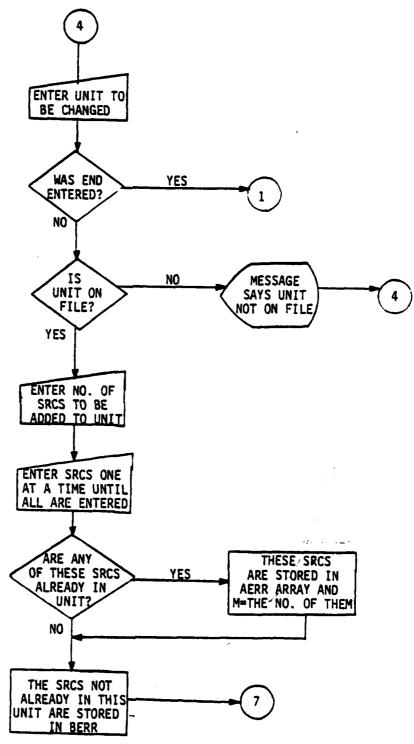


Figure C=1 UNIT program logic flow diagram (continued).



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Figure C-1 UNIT program logic flow diagram (continued). .

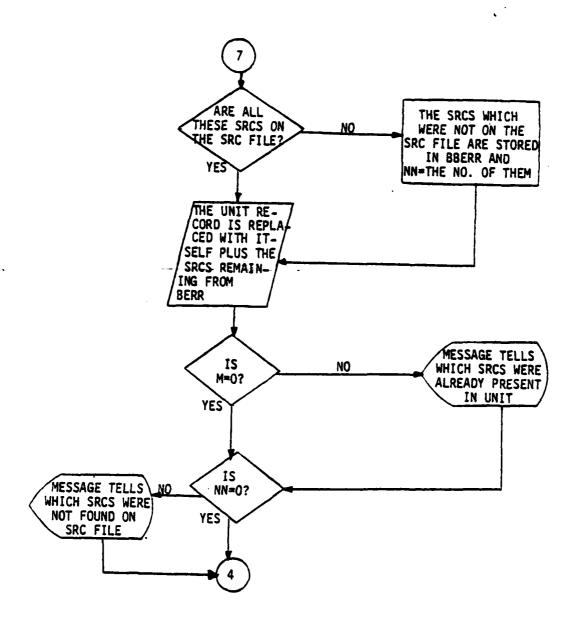


Figure C-1UNIT program logic flow diagram (continued).

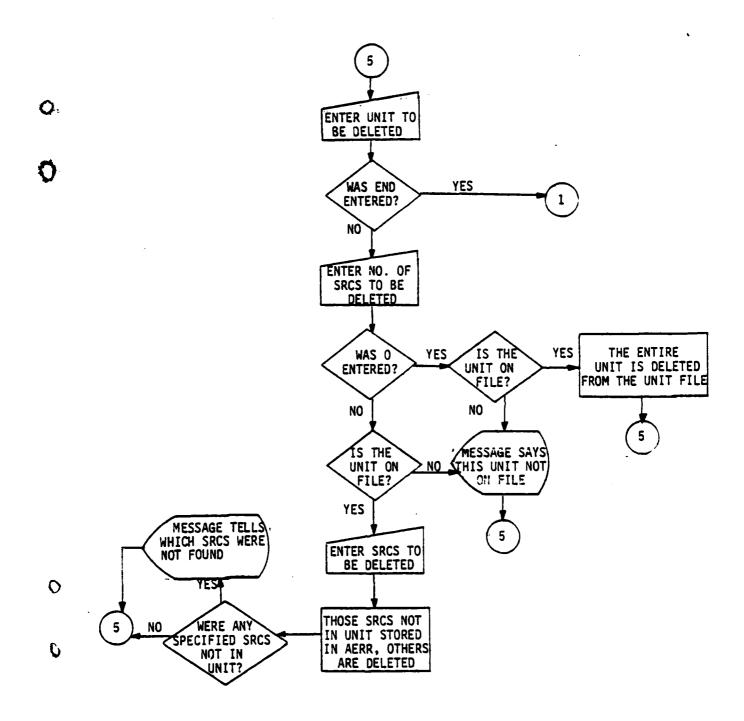


Figure C-1 UNIT program logic flow diagram (continued).

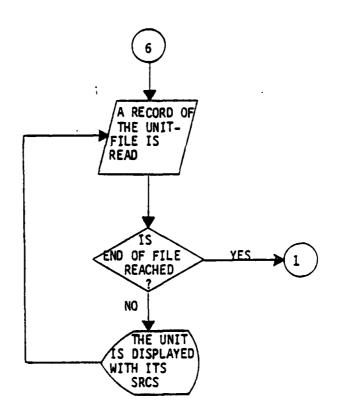


Figure C-1 UNIT program logic flow diagram (concluded).

APPENDIX D

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PARENT PROGRAM

APPENDIX D

PARENT PROGRAM

D-1. SUBROUTINE DESCRIPTION.

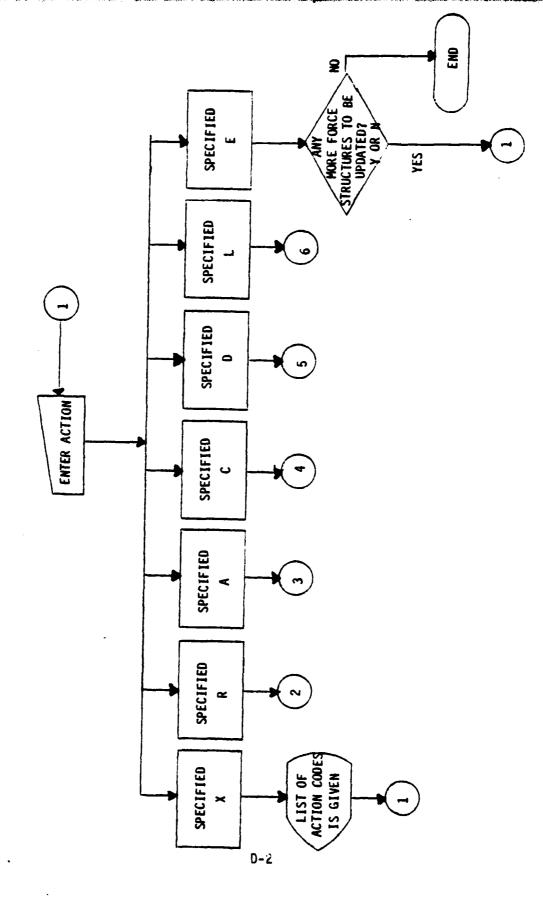
The PARENT program is used by the military gamers, who can task organize interactively the combat units previously defined on the UNIT file into a file of higher ecnelon organizations, or parent units. The logic flow diagram, a list of variables, and listing of FORTRAN code are given in this appendix.

D-2. PROGRAM VARIABLES.

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<u>Variable</u> <u>Description</u>	
BBERR Units that do not exist	
BERR Units that are to be added	
BRRAY Work storage area (Unit File)	
BRRAY (1) Force type (Key)	
BRRAY (2) Unit name (Key)	
BRRAY (3) First SRC on record	
CCHG Units to be added (deleted)	
CERR Units already existing	
CFRC Parent specified	
CHOLD Keeps the force type	
CRRAY Work storage area (PARENT file)	
CRRAY (1) Force type (Key)	
CRRAY (2) Parent name (Key)	
CRRAY (3) First unit on record	
I Unit position on record	
ICK Action code	
K Number of units not found	
LEND Number of units to be changed (d	eleted)
LFIT FIT array (Parent File)	,
M Number of units already existing	
N Number of units to be added	
NFIT FIT array (Unit File)	
NN Number of units that do not exis	t
NY Answer to question	•



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Figure D-1 PARENT program logic flow diagram. (Continued next page).

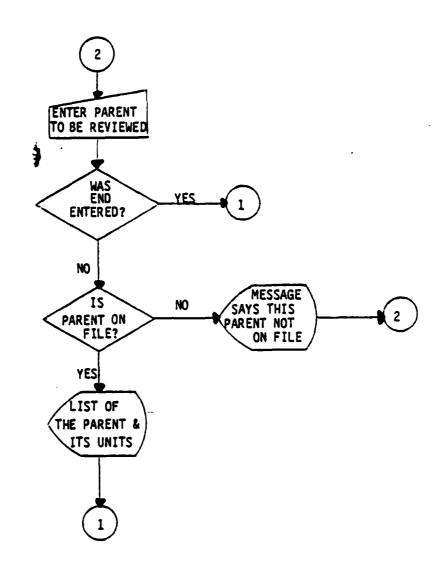


Figure D-1 PARENT program logic flow diagram (continued).

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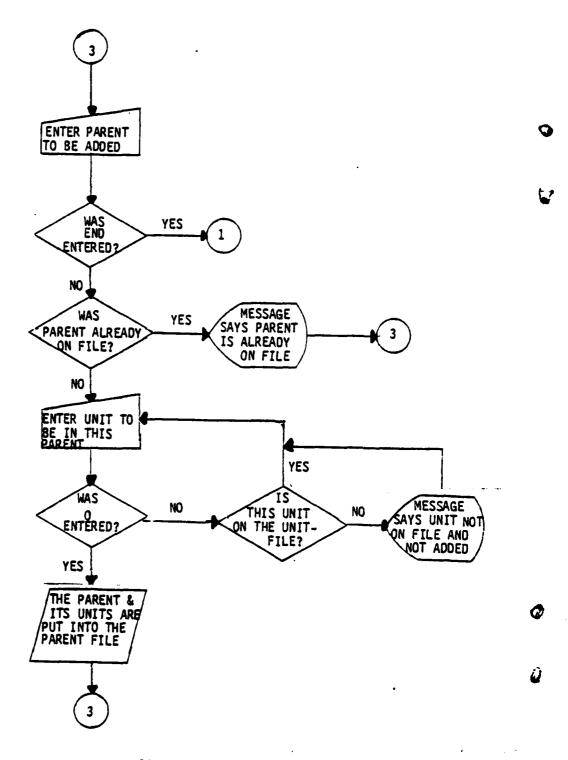
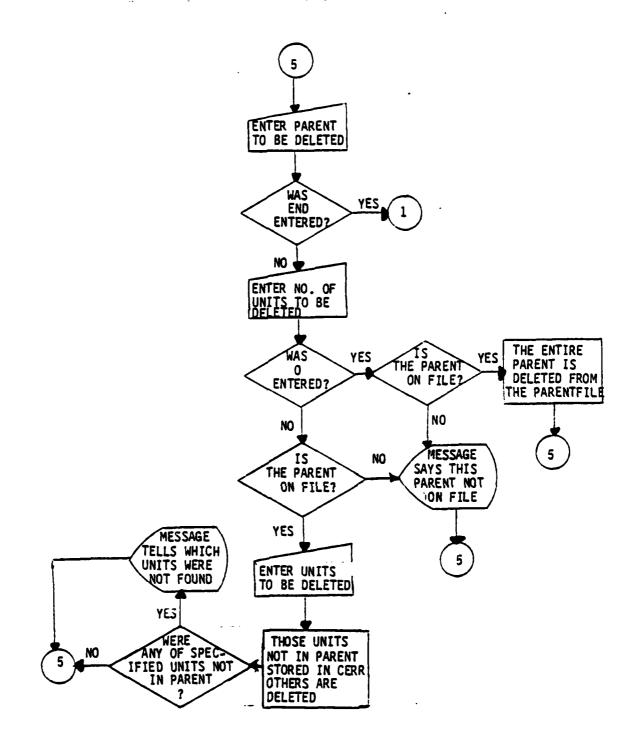


Figure D-1 PARENT program logic flow diagram (continued).



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Figure D-1 PARENT program logic flow diagram (continued).

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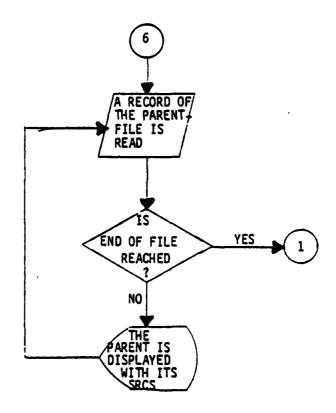


Figure D-1 PARENT program logic flow diagram (continued).

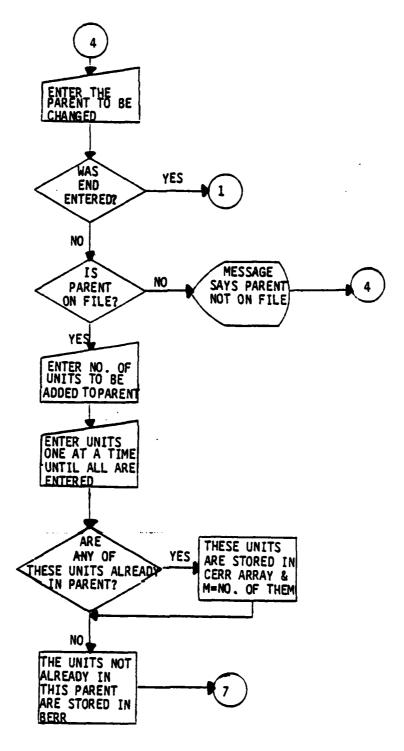


Figure 0-1 PARENT program logic flow diagram (continued).

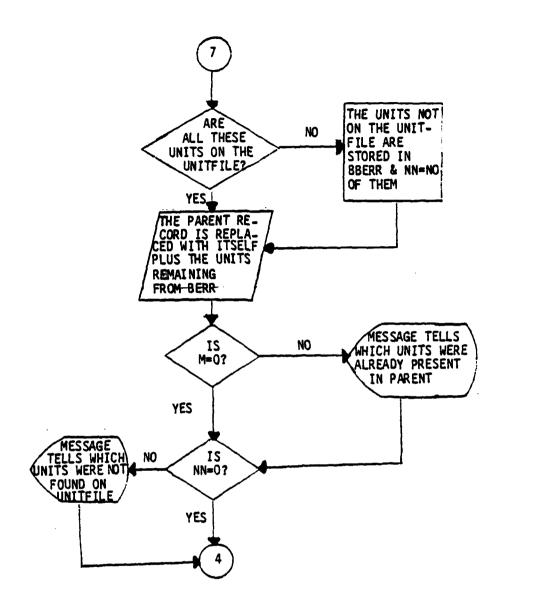


Figure D-1 PARENT program logic flow diagram (concluded).

APPENDIX E FORCE PROGRAM

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APPENDIX E

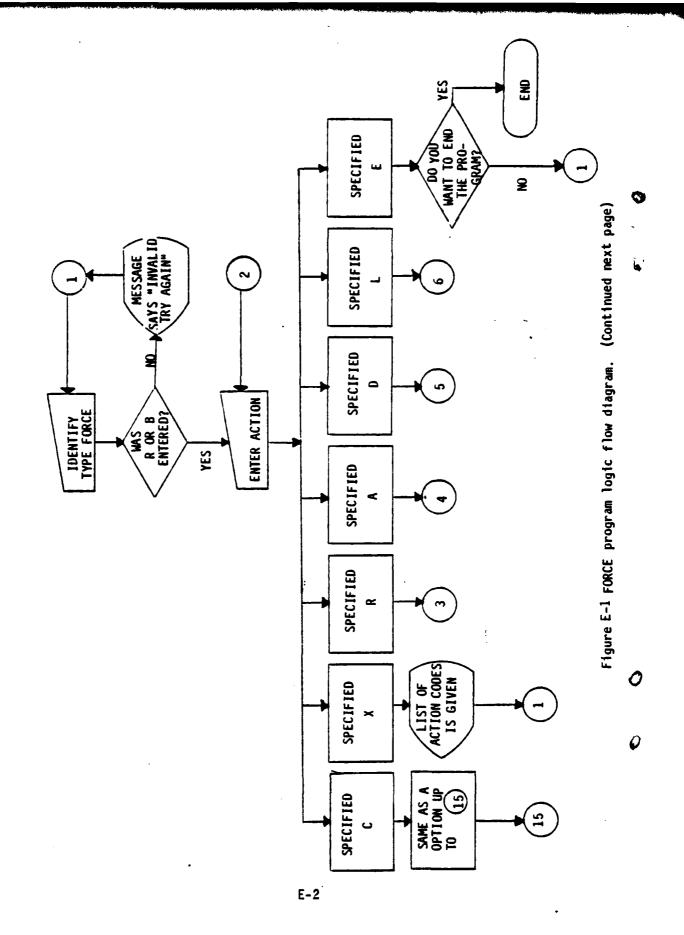
FORCE PROGRAM

E-1. SUBROUTINE DESCRIPTION. The FORCE program interactively creates a file of the forces to be assessed in the combat routines of the Jiffy game. The FORCE program consolidates the information defined on the SRC, UNIT and PARENT files. The logic flow diagram, a list of variables and listing of FORTRAN code are given in this appendix.

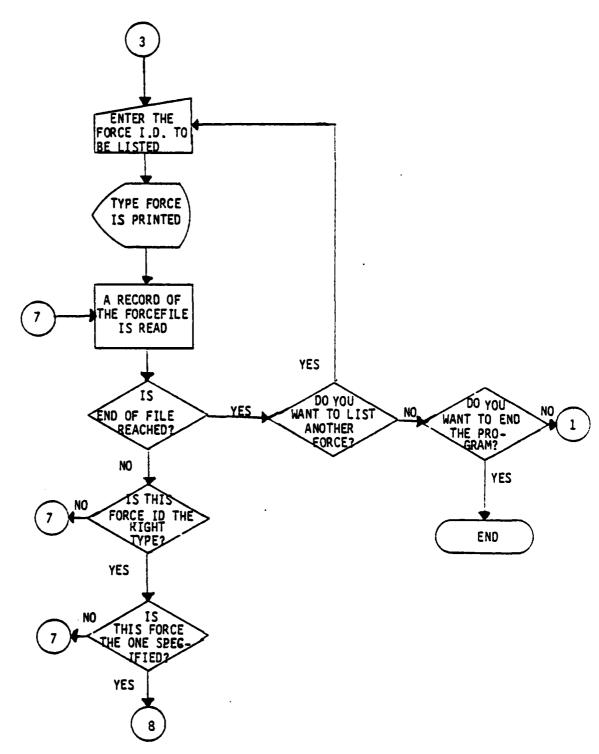
E-2. PROGRAM VARIABLES.

T	<u>Variable</u>	Description
	AA	Keeps force type
	AFOR	Work storage area (Parent File)
	AH	Used to check for correct force
	AHOLD	Keeps force type
	ARRAY	Work storage area (Force File)
	ARRAY (1)	Parent unit (key)
	ARRAY (2)	Unit (key)
	ARRAY (3)	Force type (number) /
	ARRAY (4)	Sector
	ARRAY (5)	Critical incident
	ARRAY (6)	FPS @ 100%
	ARRAY (7)	Permanent combat intensity level
	ARRAY (8)	Percent strength
	ARRAY (9)	Combat intensity level
	ARRAY (10)	EW type
	ARRAY (11)	Quantity of item code 1
	ARRAY (75) ASCENE	Quantity of item code 65 Force to be deleted
	ASCENE	Work storage area (SRC File)
	ATOT	Force specified
	AUID	Work storage area (Unit File)
	CV	Combat value specified
	FPS	Firepower score
	ID	Weapon number (1-80)
	IDO	Weapon listed
	IFIT	FIT Array (Parent File)
_	JFIT	FIT Array (Unit File)
0	KFIT	Fit Array (SRC File)
	LFIT	FIT Array (Force File)
	NUMFOR	Number of forces added
	TYPE	Force type specified

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Figure E-1 FORCE program logic flow diagram (Continued).

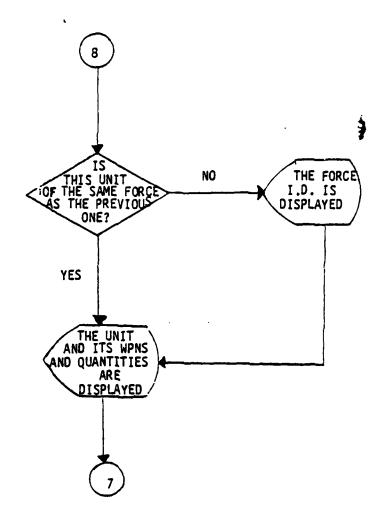
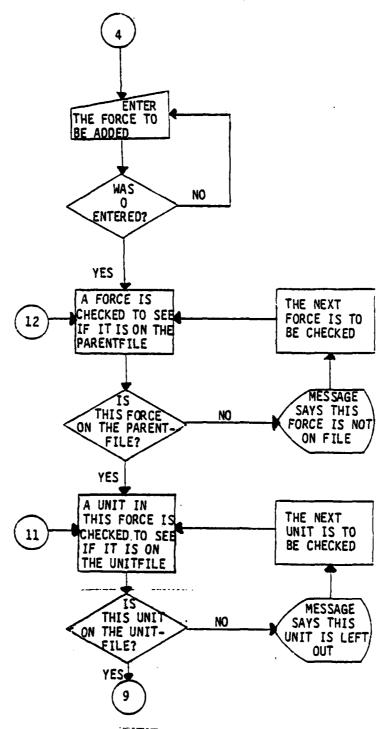


Figure E-1 FORCE program logic flow diagram (continued).



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Figure E-1 FORCE program logic flow diagram (continued).

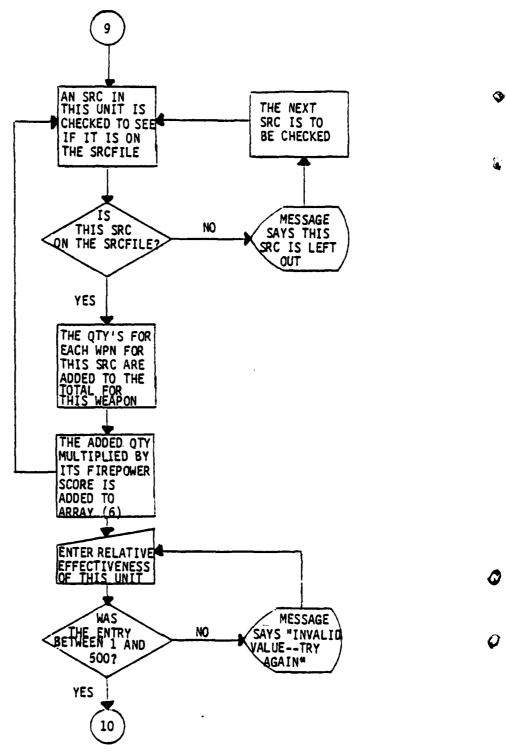
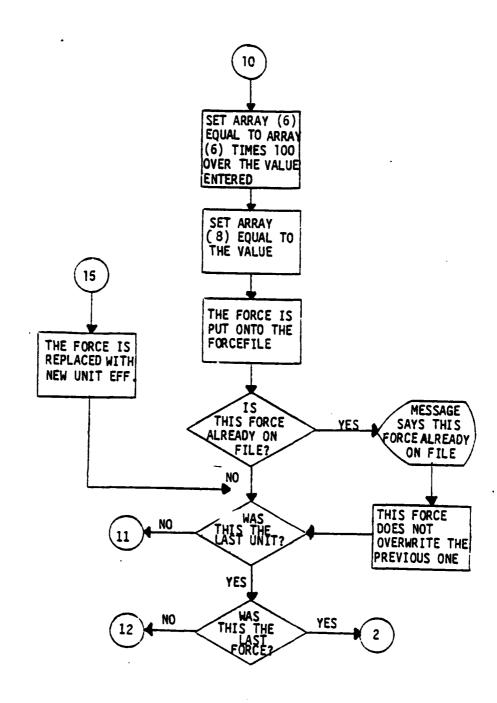


Figure E-1 FORCE program logic flow diagram (continued).



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Figure E-1 FORCE program logic flow diagram (continued).

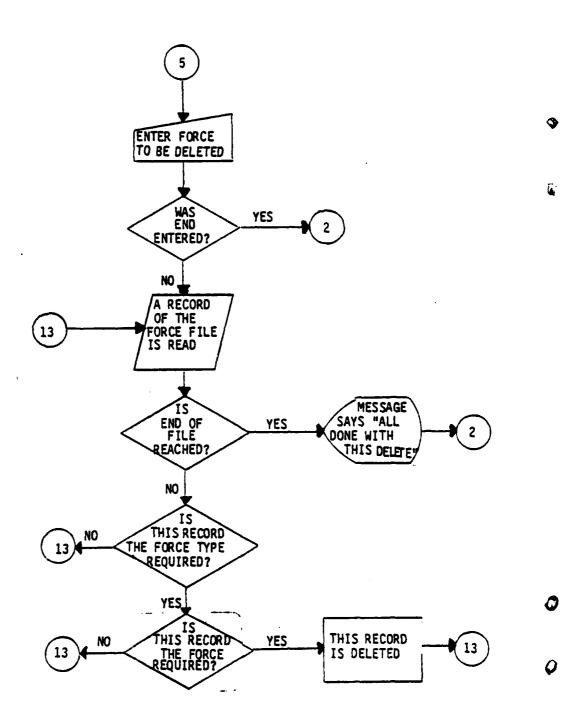
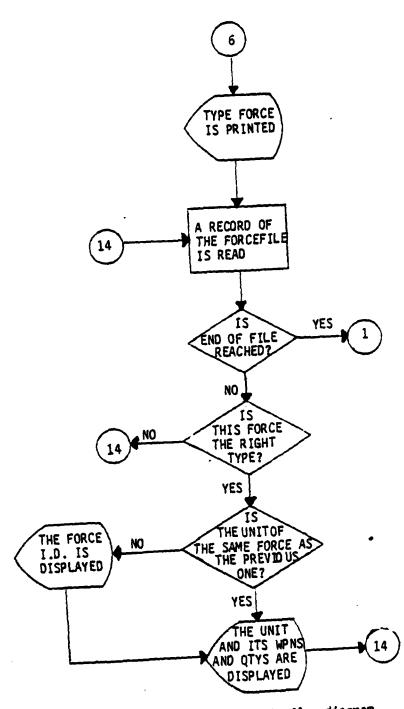


Figure E-1 FORCE program logic flow diagram (continued).



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Figure E-1 FORCE program logic flow diagram (concluded).

APPENDIX F
PROGRAM SUPER

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APPENDIX F

PROGRAM SUPER

F-1. SUBROUTINE DESCRIPTION. The program SUPER is the main program of the Jiffy game that serves as a control point. A functional flow diagram showing the overall Jiffy game and all the subroutine interactions, a list of variables, and the logic flow diagram are given in the appendix.

F-2. PROGRAM VARIABLES. (common variables)

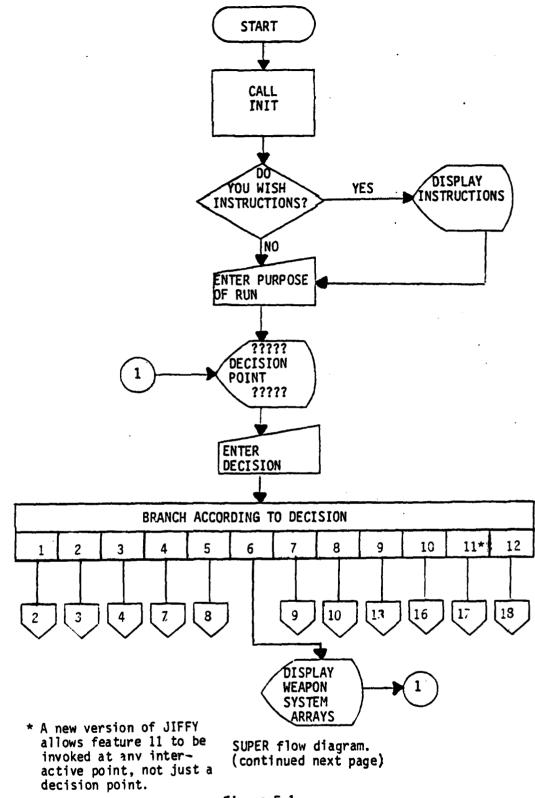
Ď	Variable	Description
	AA	Dummy variable for system data and time calls.
	ACI	Critical incident identifier
	AH	History file record array
	ALOSS	Weapon loss array
	APOS	Attack tactical deployment factor
	ARRAY	FORCE file record array
	ASCENE	Critical incident mneumonic
	ASECT	Sector number
	ATIME	Length of critical incident (HR)
	BRRAY	SRC file record array
	CFPR	Maneuver firepower ratio
	CKILL	Crew kills
	CLOS	Crew loss constant.
	CREWS	Number of crewmen killed per weapon system
	D	Number of weapons subject to loss
		apportionment
	DPOS	Defender tactical deployment factor
	ELMT	Array of weapon systems in sector
	FMASS	Fraction of attacker massed
	FPR	Total firepower ratio
	FPS	Array of weapon system firepower scores
	FSFPR	Fire support firepower ratio
	FSSF	Fire support suppression factor
	I	Subscript of fire weapon system.
	IA	Index for attacker force
	ID	Index for defender force
0	IENGAG	Index for tactical situation
	IFIRST	Rate of advance calculation flag
	IFIT	File information table for SRC file
	IHIST	File information table for HISTORY file

<u>Variable</u>

Description

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IMAXKV	Maximum size of KV table
IMOUNT	Index for attacker mobility
INX	Input response variable.
IP	Index for tactical situation table
	Index for type of run
IRUN	Logic flag
IS	Index for type of terrain
ITERRN	
ITHERM	Array of thermal sight flags
IVIS	Index for visibility
IWP	Index for weapon system
IYBUF	HISTORY file I/O buffer
J	Index for force color
JRUN	Batch run constant
JRUNS	New patch run constant
KEY	Data file random access key
LFIT	File information table for FORCE file
MINES	Minefield flag
MYBUF	FORCE file I/Ö buffer
NORD	Night or day flag
NYBUF	SRC file I/O buffer
PACK	Word packing variables
PLT	Infantryman materiel loss rates
PSN	Tactical deployment factor
SF	Suppression factor
-	
SHOTS	Round expenditure array
SHOTSV	Temporary round expenditure array.

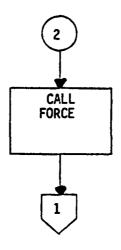


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Figure F-1



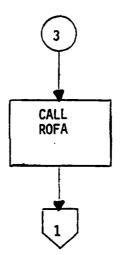
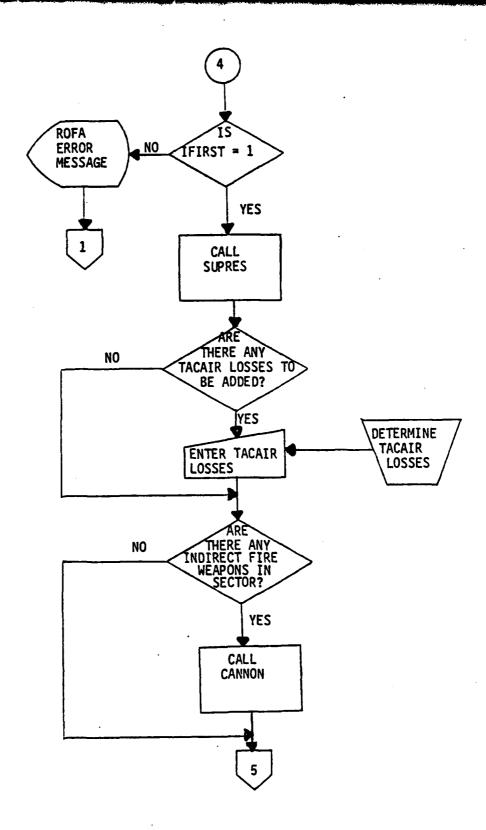


Figure F-1. SUPER flow diagram (continued).

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Figure F-1. SUPER flow diagram (continued).

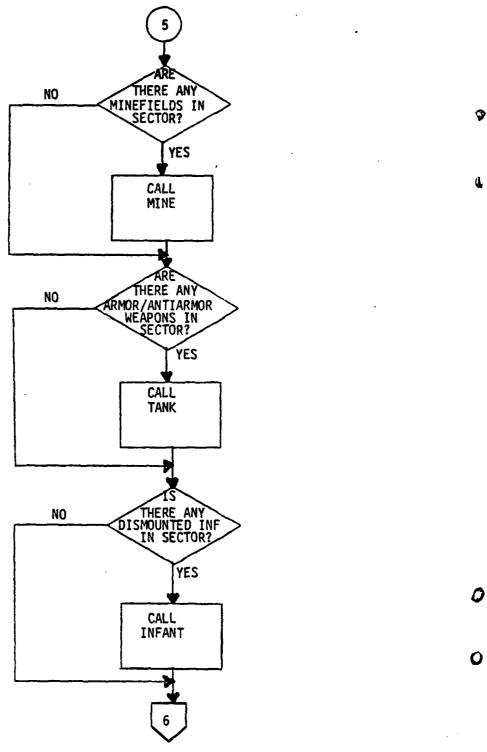


Figure F-1. SUPER flow diagram (continued).

NO THERE ANY ATK HELICOPTERS IN SECTOR?

YES

CALL AHAD

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Figure F-1. SUPER flow diagram (continued).

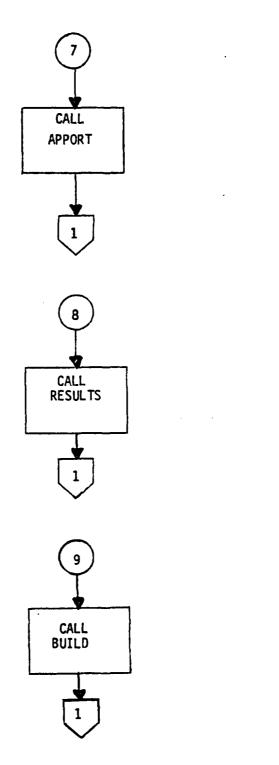
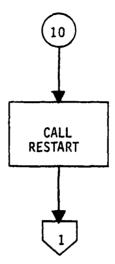


Figure F-1 SUPER flow diagram (continued).



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Figure F-1. SUPER flow diagram (continued)

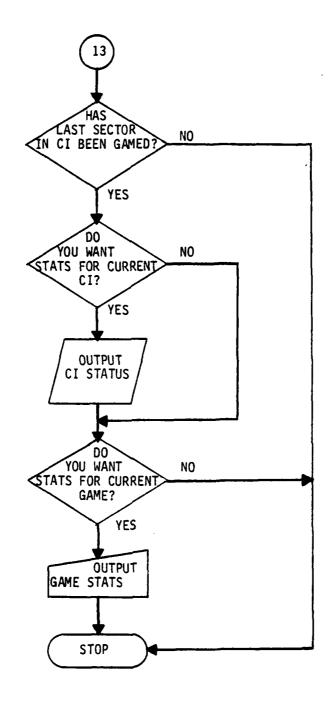
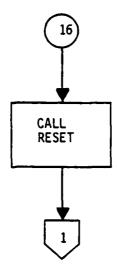


Figure F-1 SUPER flow diagram (continued)



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Figure F-1 SUPER flow diagram (continued)

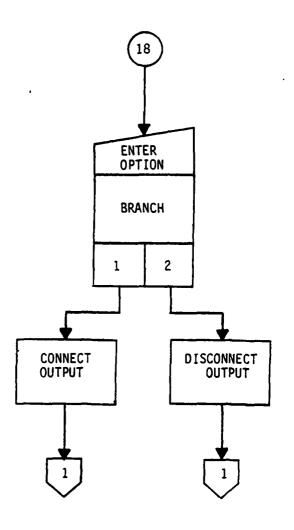


Figure F-1 SUPER flow diagram (concluded)

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APPENDIX G

PRE-ASSESSMENT SUBROUTINES

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Section I EW Section II INIT Section III ROFA Section IV SUPRES

APPENDIX G

SECTION I. SUBROUTINE EW

 $\mbox{G-1.}$ SUBROUTINE DESCRIPTION. This routine calculates the factors used to degrade AD, AH, artillery and maneuver firepower score, and artillery missions.

G-2. PROGRAM VARIABLES.

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	<u>Variables</u>	<u>Description</u>
3	ACFPS	Tacair fire power score total
	ADFPS	Air defense firepower score total
	AHFPS	Attack helicopter firepower score total.
	ARD	Dust level determiner
	ICOUNT	Number of units per EW type
	ISMIKE	Flag for Red smoke type
	NMV	Number of maneuver units for dust effects.
	PCDGR	Array for percent EW degradation
	PCSMO	Percent smoked array
	PCSSM	Percent self smoked arrays.

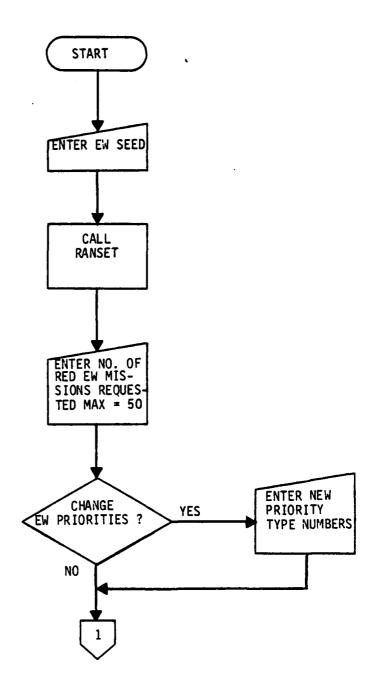


Figure G-1 EW flow diagram (continued).

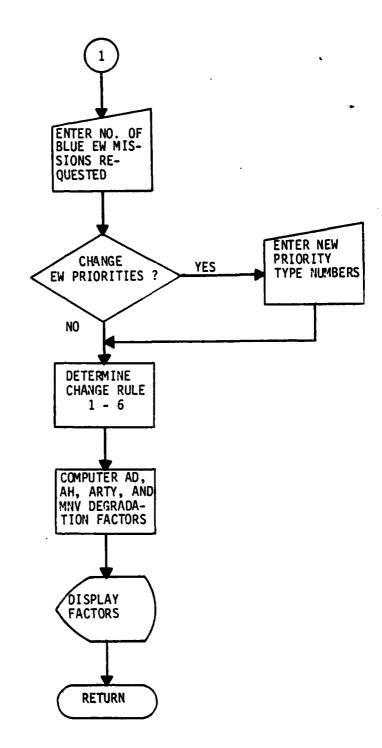


Figure G-1. EW flow diagram (concluded).

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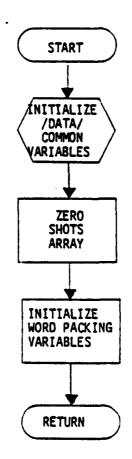
APPENDIX G

SECTION II. SUBROUTINE INIT

G-II-1. SUBROUTINE DESCRIPTION. This routine initializes the arrays in DATA/common. Note that the firepower score array (FPS) is initialized from the classified data array (CLDATA). In addition, INIT zeros the SHOTS array and initializes the word packing array variables (PACK).

G-II-2. PROGRAM VARIABLES.

Variable	Description
ADIST	Attacker's covered distance
CFPR	Ground combat firepower score
CFPR	Ground combat firepower ratio
F	Fraction of sector Red force massed
FPRM	Maneuver firepower ratio
FSFPS	Fire support firepower score
FSFPR	Fire support firepower ratio
I	Weapon system index
I EL	Force index
IFPR	Rate-of-advance firepower ratio index
INX	Input response variable
ISTART	Do-loop index
ITABLE	Engagement type index
J	Force index
JVIS	Rate-of-advance visibility index
K	Weapon system index
KIND	Force color
MEPS	Maneuver firepower score
RATE	Rate-of-advance data array
RMIN	Minimum attacker firepower ratio
ROA	Rate-of-advance (KM/HR)
ROA1	Intermediate ROA calculation variable
ROA2	
STABLE	Rate of advance index determiner
TFPS	Total firepower score



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Figure G-2 INIT flow diagram.

APPENIX G

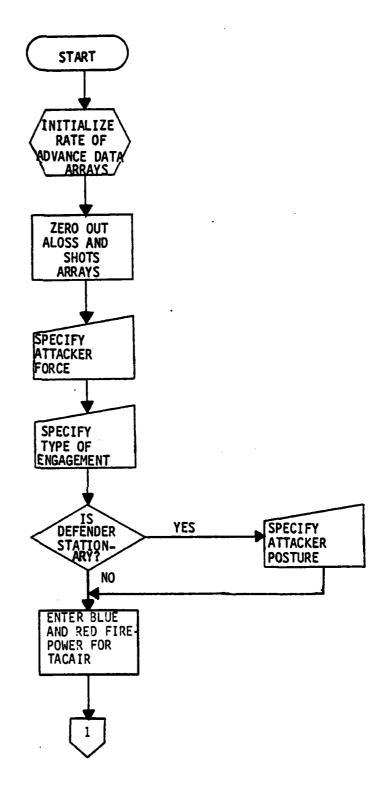
SECTION III. SUBROUTINE ROFA

G-III-1. SUBROUTINE DESCRIPTION. The ROFA routine is accessed from the main Jiffy Game program at DECISION POINT number 2 (see table 1). The primary function of this routine is to determine and display, for the sector being gamed, the rate of advance of the attacking force; the maneuver, fire support, and total firepower scores for each force; and the corresponding attacker; defender firepower ratios. To accomplish this, a number of parameters representing environmental and tactical military conditions that influence the nature of the conflict must be input interactively. Since these same factors also influence the other combat assessments, they are initialized here as variables in COMMON areas; thus, none of the combat assessment subroutine can be accessed until this routine has been executed.

2. PROGRAM VARIABLES.

<u>Variable</u>	<u>Description</u>
AC	TACAIR firepower score
ADIST	Attacker's covered distance
ADIST	Attacker advance distance
AHI	History file parameter
CFPR	Maneuver firepower array
F	Fraction of sector Red force massed
FPRM	Maneuvr firepower ratio
FSFPS	Fire support firepower score
FSFPR	Fire support firepower ratio
I	Weapon system index
IEL	Force index
IFPR	Rate-of-advance firepower ratio index
INX	Input response variable
INPUT	Logic flag
IS	Logic flag
ITABLE	Engagement type index
J	Force index
JVIS	Rate-of-advance visibility index
K	Weapon system index
KIND	Force index
MFPS	Maneuver firepower score
RATE	Rate-of-advance data array
RMIN	Minimum attacker firepower ratio
ROA	Rate-of-advance (KM/HR)
ROA1 ROA2	Intermediate ROA calculations variable
STABLE	Rate of advance index determiner
TFPS	Total firepower score

NOTE: All common variables are defined in appendix F.



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Figure G- 3 ROFA flow diagram (continued).

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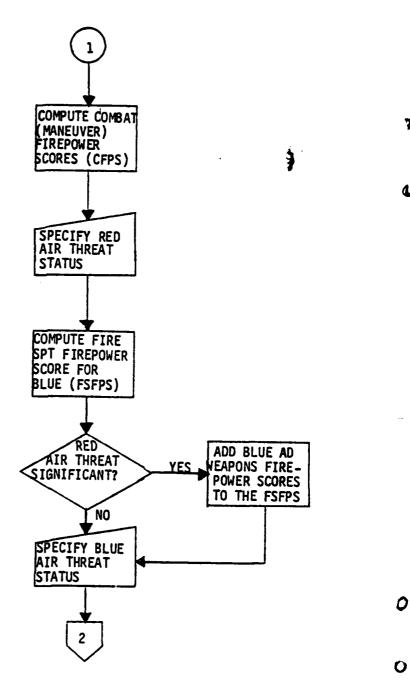


Figure G- 3 ROFA flow diagram (continued).

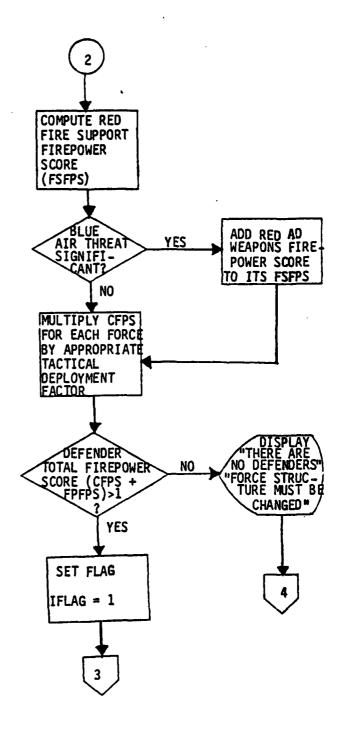


Figure G-3 ROFA flow diagram (continued).

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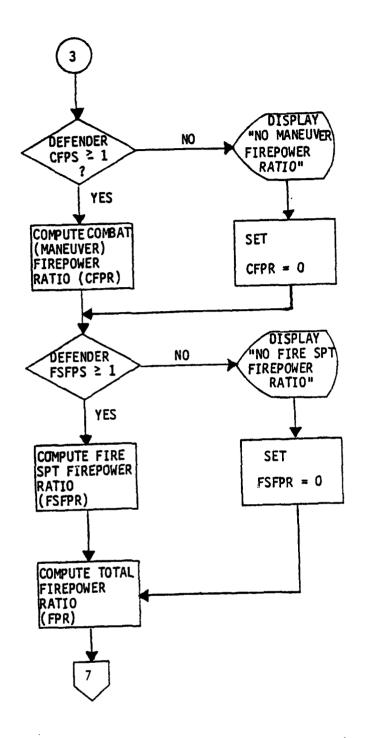


Figure G-3 ROFA flow diagram (continued).

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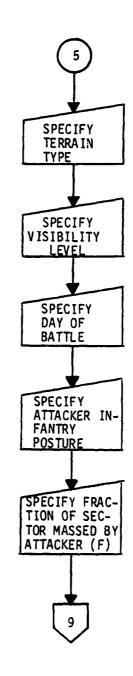


Figure G-3 ROFA flow diagram (continued).

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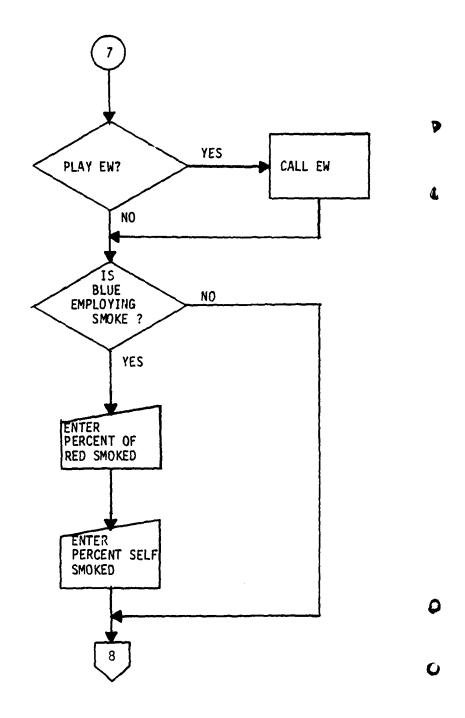


Figure G-3 ROFA flow diagram (continued).

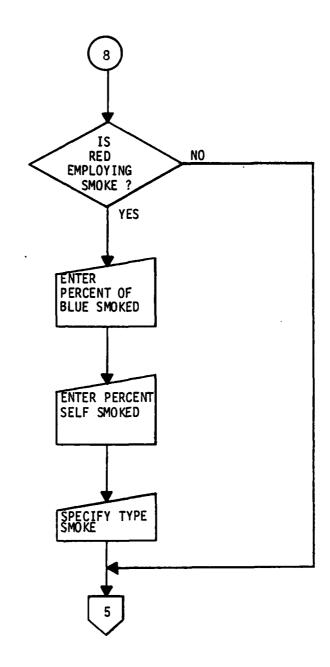


Figure G-3 ROFA flow diagram (continued).

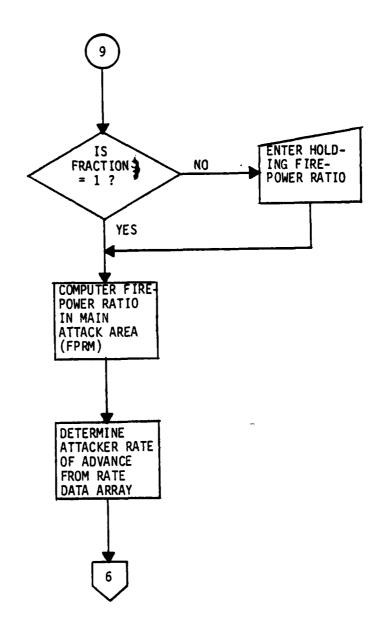
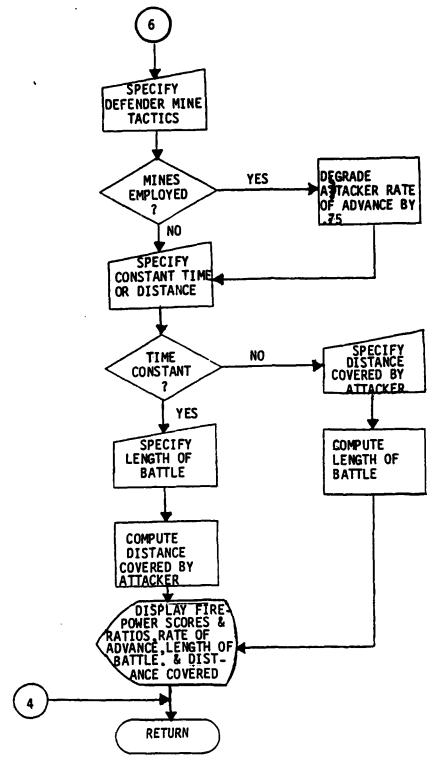


Figure G-3 ROFA flow diagram (continued).



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Figure G-3 ROFA flow diagram (concluded).

APPENDIX G

SECTION IV. SUBROUTINE SUPRES

G-IV-1. SUBROUTINE DESCRIPTION. The routine, which determines the suppression factors for the attacking and defending forces, is composed of an array of the suppression factors used in the Jiffy Game and a few lines of code that access the data and set the suppression factors for both forces.

G-IV-2. PROGRAM VARIABLES.

Variable

Description

FACT

Suppression factor data array

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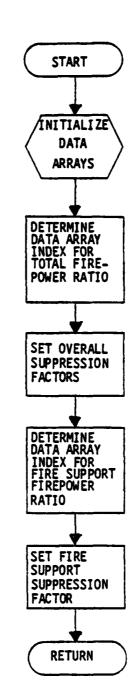
Array index

STABLE

Limites of firepower ratios which index

suppression factor data

NOTE: All common variables are defined in appendix F.



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Figure G-4 SUPRES flow diagram.

APPENDIX H

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ASSESSMENT SUBROUTINES

Section I AHAD
Section II CANNON
Section III CLGP
Section IV FASCAM
Section V INFANT
Section VI MINE
Section VII TANK

APPENDIX H

SECTION I. SUBROUTINE AHAD

H-I-1. SUBROUTINE DESCRIPTION. Program AHAD is the last of the combat assessment routines called from the program SUPER at DECISION POINT number 3 (see Table 1). The purpose of this program is to determine and display losses resulting from combat involving at sack helicopters and air defense systems. Both the helicopter and AD SSKP's are stored in the classified random access file (CLDATA); several unclassified data arrays are initiated in the program itself. The program contains two sets of assessment logic, one for attack helicopter assessments against ground forces and another for air defense assessments against helicopters. The interactive definition of an attack helicopter mission initiates processing of both types of assessments, which are made for each pop-up of the helicopters in the attack cell and consequently may be cycled through several times for each mission. The number of helicopter missions to be assessed for each force is determined by the gamer; the Red helicopter/ Blue air defense assessments are completed prior to beginning the Blue helicopter/Red air defense assessments. When all assessments have been completed, the cumulative losses are displayed for both forces, the LOSS subroutine is called, and the subroutine exited. This appendix contains the logic flow diagram, list of variables, and the FORTRAN source code listing for subroutine AHAD. The AHAD routine processes assessments for combat in which attack helicopters are firing at ground maneuver units while being engaged by air defense weapons. The logic flow diagram and the program variables are given in this appendix.

H-I-2. PROGRAM VARIABLES.

	<u>Variable</u>	<u>Description</u>
	ABORT	Missile abort factor
	AC	Number of helicopters entered in cell
	ACAV	Helicopter operational availabilities
	ACCREW	Helicopter crewmen losses
	ACKILL	Mission helicopter losses
	ACLOST	Popup helicopter losses
0	ACQ	Air Defense acquisition probabilities
•	ADB	Air Defense rounds per burst
	ADD	Fire distribution variable
	ADPK	Air Defense kill probability by range
0	ADUST	Dust effects factor
J	AHI	History file parameter
	AHKILL	Cumulative probability of survival against
	,	helicopters
	AIRLOSS	Helicopter losses array
	AKILL	Helicopter survival probability against all AD

<u>Variable</u> Description APNSMK Percent of helicopters unsmoked by Red APOP Helicopter ordnance success rates of fire A0 Air Defense acquisition probability CELL Helicopter attack cell configuration array **CLOST** Ground weapons crewmen losses Number of scouts in cell DEN DENS2 Defender in high density flag DIV Division in number of pop-ups calculation **DUST** Dust array Elements remaining **ELS** EXP Total number of helicopter exposures to AD fire **FARD** Friendly barrage factor FDF Fire distribution factor Fraction maneuver forces engaged FE **FPNSMK** Percent and firers not affected by smoke **FRAC** Loss apportionment factor **GFKILL** Mission ground force losses Mounted/dismounted infantry material loss GIS factor **GNDLOS** Total ground force losses Hours of flying time for helicopters HELT Number of helicopters remaining in a force HVICTIM Pass dependent helicopter victims Ground weapon system index **IABORT** Mission abort flag TAM Status record ammo indes **IBAMO** Blue round indes IDF AH missile fire launch index **IECM** Electronic countermeasure index IEL Infantry weapon loss calculation index **IFLAG** Display header flag IFL Ammo expenditures calculation flag H Ground weapon system index AD firer index IN INC History file parameter INX Input response variable **IPAD** AD position indes Put call switch **IPUT** IR Range index **IRAMO** Red round index IRNG Range index Pass flag **ISFL** Terrain index IT **ITDASS** Smoke flag

Ordnance type index

Ground weapon target type index

ITGT

ITYP

	Variable	Description
	IWP	Infantry weapon index
	IX	Terrain masking index
•	J	Ground force index
-	JPSN	Positioning units index for contact
	JVIS	Visibility index
	K	Helicopter type index
	KIND	Force color
D	KK	Helicopter type index
	KTRL	AD weapon conrol status factor index
	MAXPOP	Maximum number of popups
	MMSFE	Terrain masking index array
	N	Cell popup index
	NCL	History file record field index
	NMAX	History file record field index
	NN	Cell popup counter index
	NPOP	Number of helicopter popups per sortie
	NPOPUP	Number of cell popups
	NTYP	Round type index
	NW	History file record field index
	N13	History file parameter calculation variable
	N14	History file parameter calculation variable
	OPAV	Weapon system operational availability
	ORD	Helicopter ordnance loads
	ORDEXP	Helicopter ordnance expenditure
	PAP	Percent AD committed array
	PCNSM	Percent of force not smoked
	PDAC	Attack helicopter acquisition probabilities
	PERAH PF	Percent AH not smoked Percent AD firers for AKM model
	PHKILL	Weapon system survival probability against
	FINILL	helicopter
	PK	Helicopter probability of kill array
	PKILL	Helicopter survival probability against AD
		weapon
	PLOS	Terrain masking array
_	PNSMK	Percent not smoked
0	POPORD	Helicopter per popup ordnance expenditure
	PROB	Helicopter averaged PK against target
	PROB1	Helicopter PK against target in defilade
	PROB2	Helicopter PK against target in open
0	PUN	Pass determined smoke variable
	RDS	Rounds expenditure variable
	RND	Rounds expenditure variable
	ROUNDS	Total helicopter rounds fired
	S	AD weapons suppression factor
	SA	Helicopter sorties available
	SFACT ·	Suppression factor coefficient

<u>Variable</u>	Description
SH	Helicopter suppression factor
SHKILI	Loss apportionment denominator for helicopter
SHTS	AD rounds expenditure variable
SKILL	Loss apportionment denominator for AD weapons
SSK	AD single engagement kill probabilities
TARD	Threat barrage factor
TMASK	Terrain masking factors
TNOW	Current total number of helicopters in cell
TSART	Initial total number of helicopters in cell
VICTIM	Total ground weapon system targets for helicopters
VKILL	Ground weapon systems killed by helicopters
WEAPC	AD weapon control status factors
WEIGHT	AD target weighting factor
XAC	Helicopters remaining in cell

NOTE: All common variables are defined in appendix F.

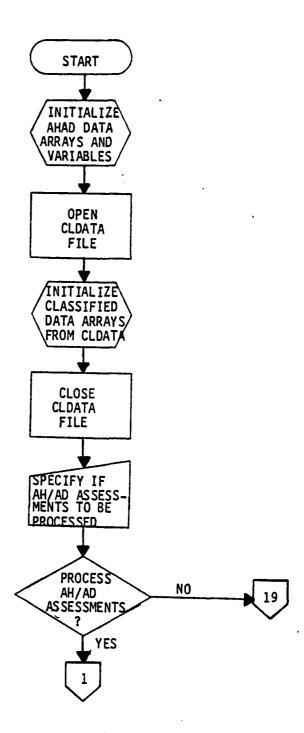


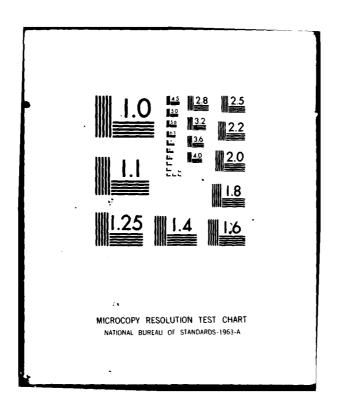
Figure H-1 AHAD flow diagram. (Continued next page)

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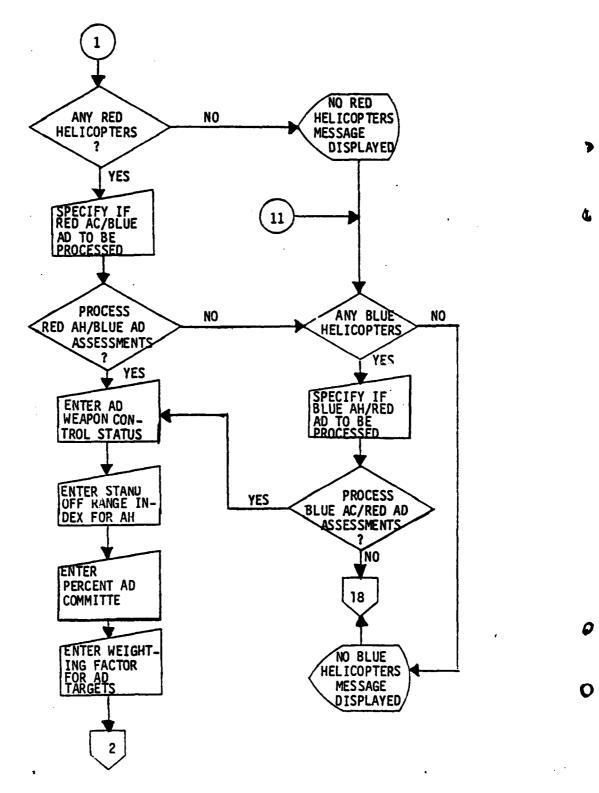
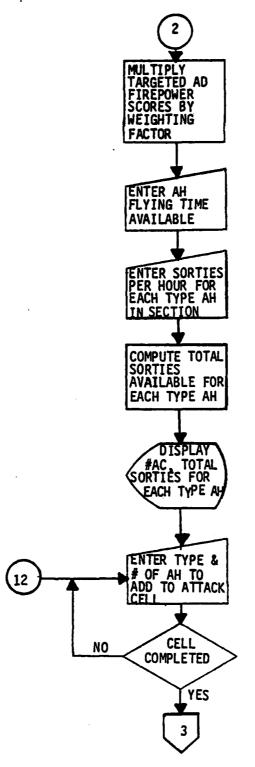


Figure H-1 AHAD flow diagram (continued).



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Figure H-1 AHAD flow diagram (continued).

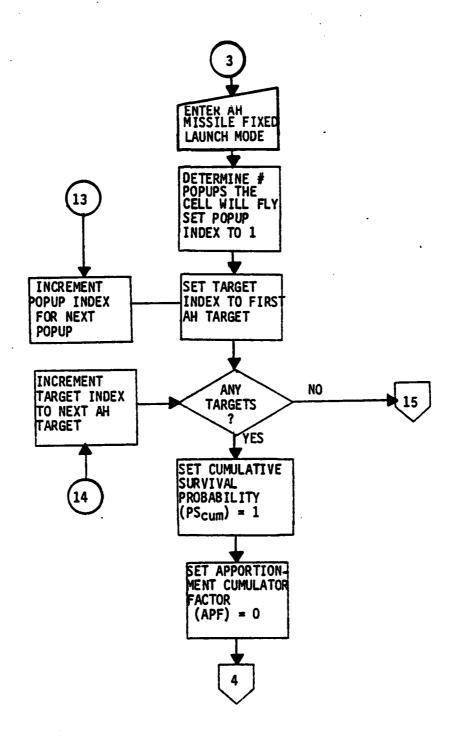
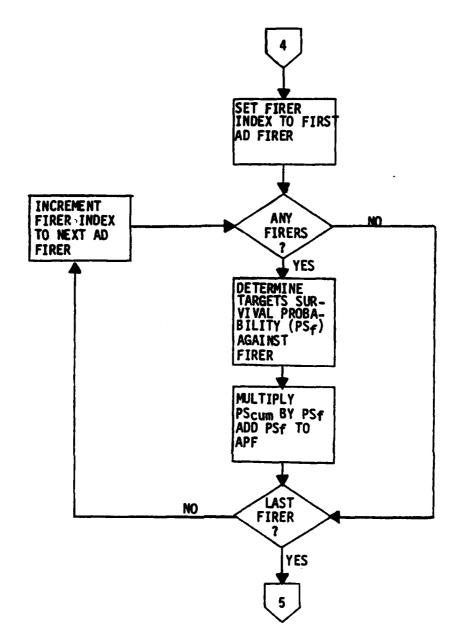


Figure H-1 AHAD flow diagram (continued).



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Figure H-1 AHAD flow diagram (continued).

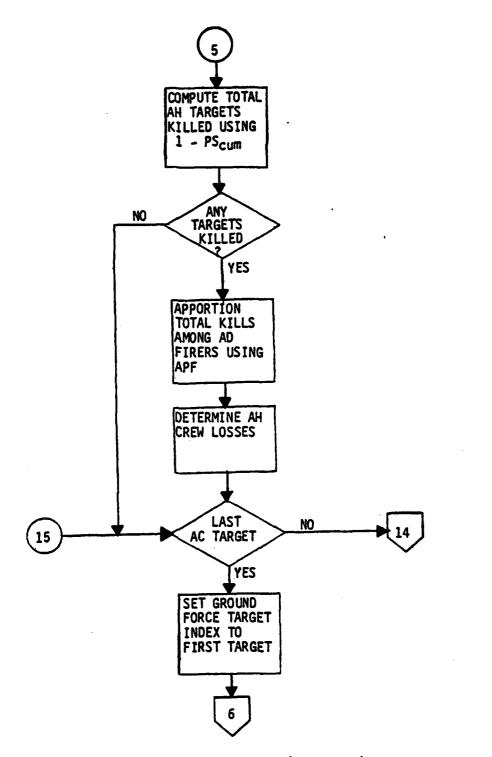


Figure H-1 AHAD flow diagram (continued).

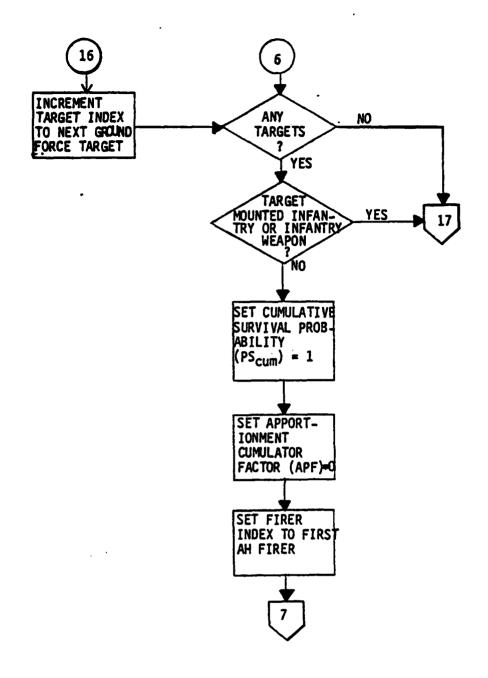


Figure H-1 AHAD flow diagram (continued).

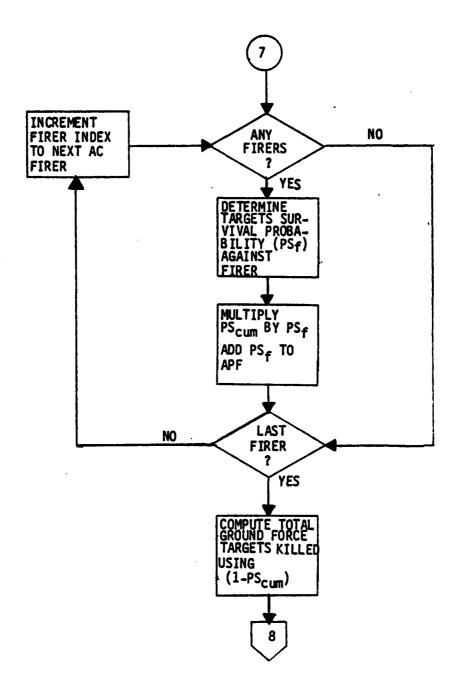
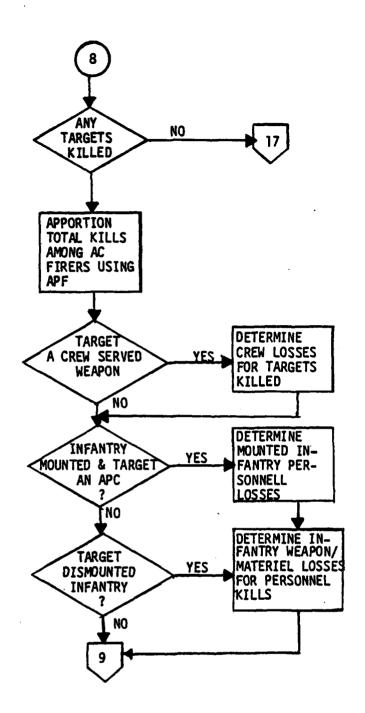


Figure H-1 AHAD flow diagram (continued).



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Figure H-1 AHAD flow diagram (continued).

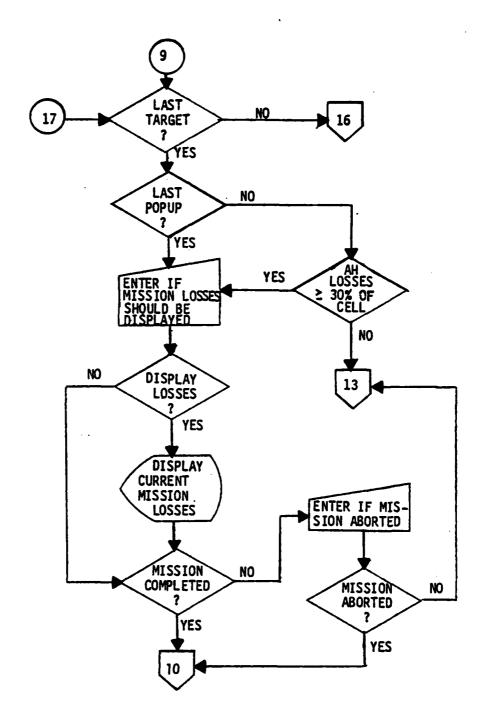


Figure H-1 AHAD flow diagram (continued).

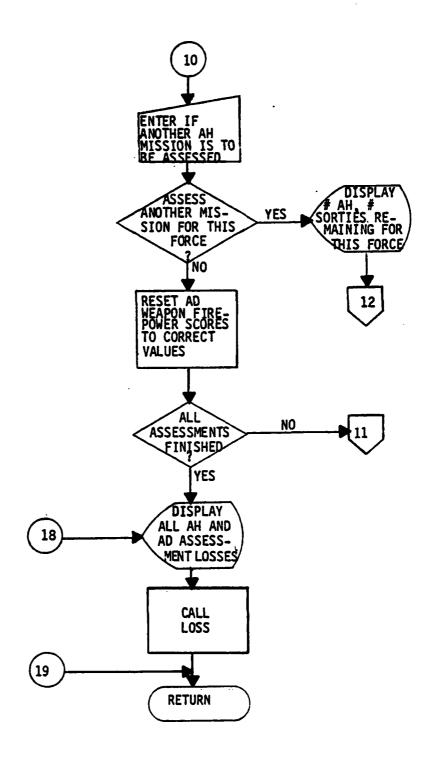


Figure H-1 AHAD flow diagram (concluded).

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SECTION II. SUBROUTINE CANNON

H-II-1. SUBROUTINE DESCRIPTION. CANNON is the first combat assessment routine called by the supervisory program (SUPER) from DECISION POINT number 3 (see table 1). It requires data arrays from the classified random access file (CLDATA) in addition to the data initiated within the program itself. CANNON performs nearly all the assessments associated with mortar and field artillery fire and also displays the losses from all indirect fire missions. The routine requires a number of gamer inputs to specify the types of indirect fire missions being assessed and to set parameters that are used in the actual assessment computations. The program cycles through several nested DO loops in making the loss calculations in order to assess all possible target/firer combinations; this is done for each force firing at the opposing force and for each phase of indirect fire combat being assessed. The only indirect fire assessment not included in the CANNON routine is for cannon-launched guided projectiles (CLGP). CLGP missions are available only to the Blue force and are assessed by calling the subroutine CLGP. When all assessments have been completed, the cumulative losses are displayed, the LOSS subroutine is called, and control is returned to the supervisory program.

H-II-2. PROGRAM VARIABLES.

<u>Variable</u>	<u>Description</u>
ACQ	Acquisition factor
ADSF	Air defense suppression mission flag
AHI	States record indicator
AKILL	Target survival probability against all firers
AT	Number of homogeneous area targets
BMT	Battery missions per tube
BMTH	HE missions
BMTI	ICM mission
С	Combat level variable
CBTLEV	IDF combat level required
CLEV	IDF combat level
CLOST	Crewmen lost
CM	Total CLGP missions fired
CM50	CLGP missions fired by weapon 50
CM53	CLGP missions fired by weapon 53
DE	Fraction of IDP systems deployed
F	Fraction of missions which are targeted
FAC	Fire allocation constant
FDF	Fire distribution factor
FDT	Fractional damage table
FDTATH	HE fractional damage divided by number of targets

	Variable	Description
	FDTATI	ICM fractional damage divided by number of targets
Ç	FLAG FPF HOURS	Flag for type of IDF mission Length of final protective fires (minutes) Length of IDF mission (hours)
	HR Hrarty	Length of IDF support (hours) Length of artillery support (hours)
٥	Ī	Firer weapon integer index
	IC ICAN	ICM round type variables Debug flag
	ICAT	IDF weapon category index
	ICB	Counterbattery mission flag
	ICM	ICM round type arry
	ICS	Close support mission flag
	IFLAG II	Mission flag index Firer weapon mapping index
	INC	History file field index
	ÎNX	Input response variable
	IOP	Suppression factor index
	IPOINT	Output header flag
	IS ISHOT	AMMO array index Ammunition expenditure index
	1500 I SO	Weapon 50 CLGP fire flag
	153	Weapon 52 CLGP fire flag
	J	Firer's force integer index
	K	Victim weapon integer index
	KIND	Force color
	KK L	Target mapping index Victim's weapon integer index
	MAP	IDF target mapping array
	MW	Military worth array
	MWROFB	Military worth array or blue systems
	MWTH	Military worth
	MWTHX N	Military worth variable Do loop variable
	NWD	History file field index
0	OA	Operational availability
	OPERA	Operational availability
	P	Gamer percent response variable
0	PCM	Percent not degrated by EW Percent not degrated by smoke
0	PCM1 PERSF	Personnel fire mission flag
	PIC	Percent ICMs variable
	PICM	Percent ICM array
	PKILL	Target survival probability against firer
	PLOSS	Total victims killed
	PNTAR	Percent not targeted

<u>Variable</u>	Description
POK	Percent of knowledge
PREP	Lengths of prep/counter-prep fires (minutes)
RDF	Rate of fire
RPM	Rounds per mission
S	Suppression factor
SKILL	Loss apportionment factor denominator
SUPR	Weapon suppression constants
TBAT	Tubes per battery
TEMP	Blue firer documentation variable
TEMP2	Red firer documentation variable
TEMP3	Blue target documentation variable
TEMP4	Red target documentation variable
TGT	Elements per target
TKILL	Target losses to IDF systems
X	Ammo calculation variable
X2	Ammo calculation variable
X2	Ammo calculation variable
Z	SP 122's in DF role

NOTE: All common modules are defined in appendix F.

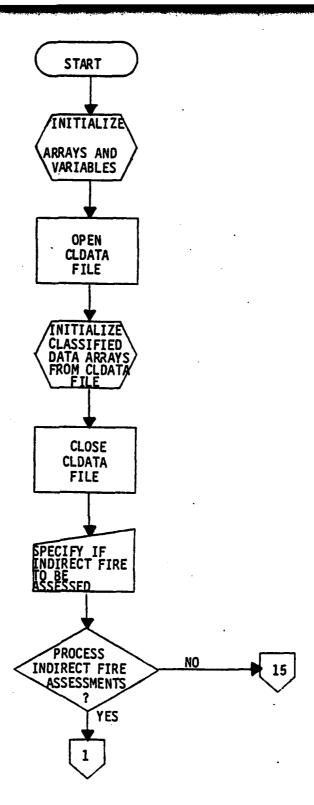


Figure H-2 CANNON flow diagram. (Continued next page)

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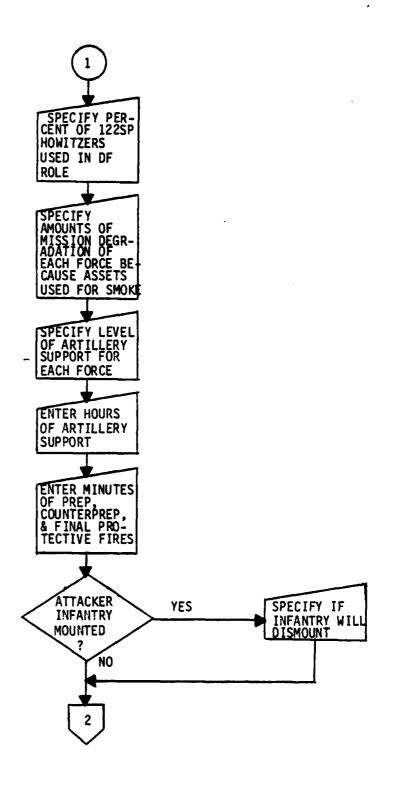


Figure H-2 CANNON

flow diagram (continued).

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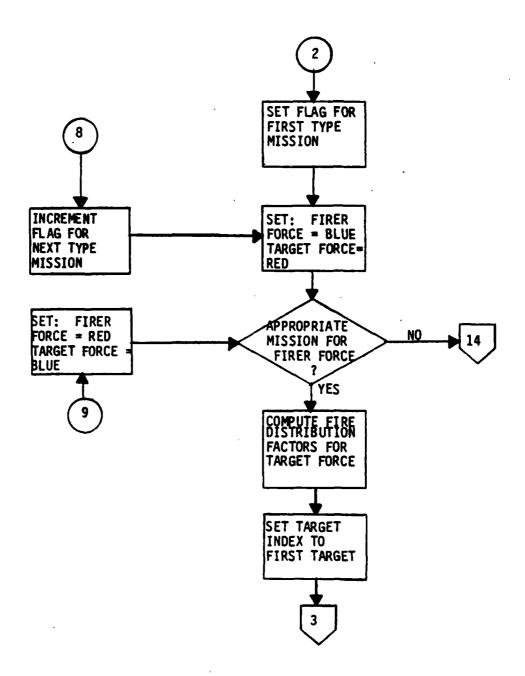


Figure H-2 CANNON flow diagram (continued).

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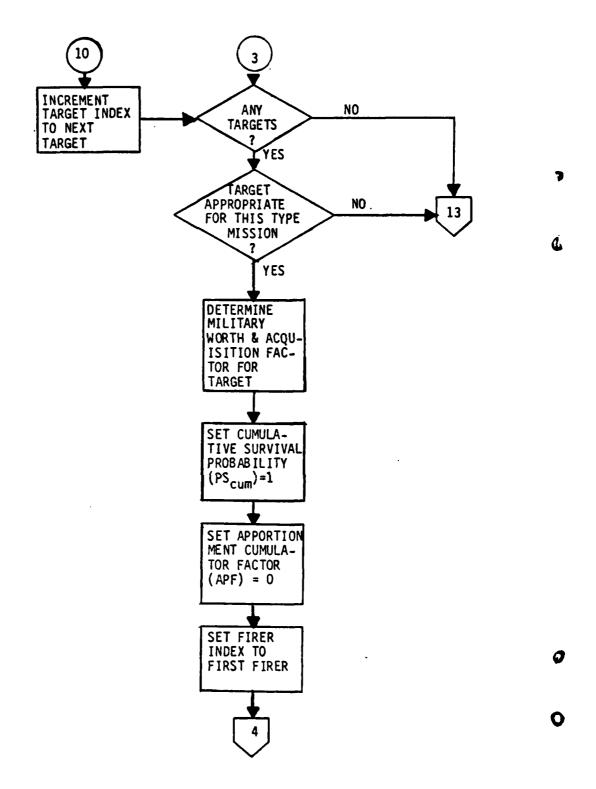
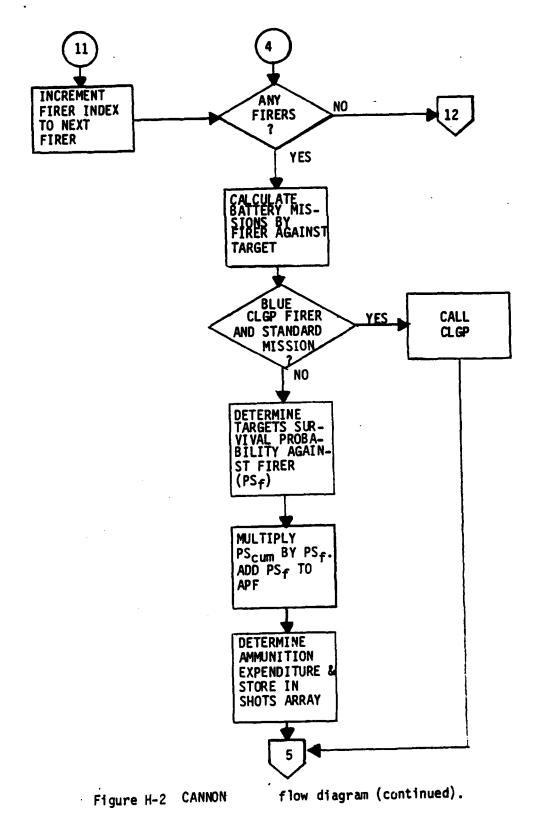


Figure H-2 CANNON

flow diagram (continued).



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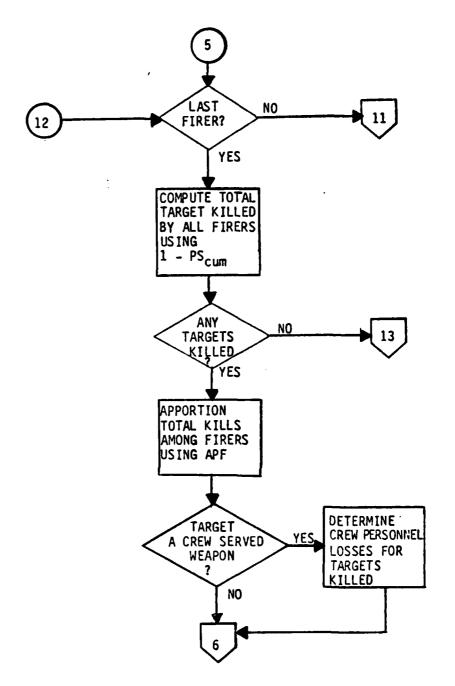


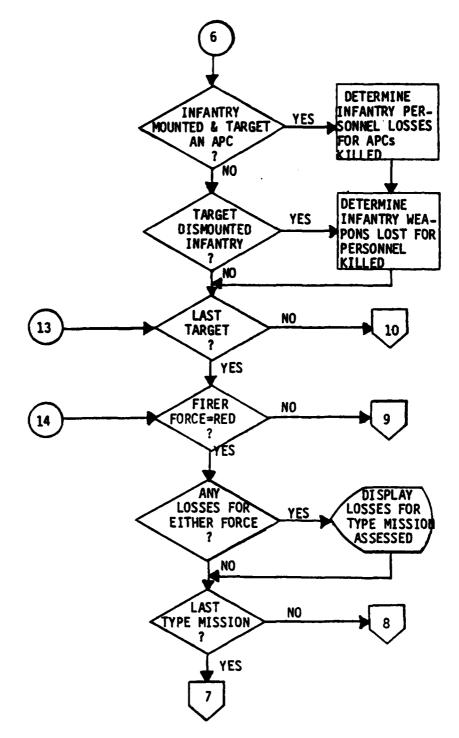
Figure H-2 CANNON

flow diagram (continued).

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Figure H-2 CANNON flow diagram (continued).

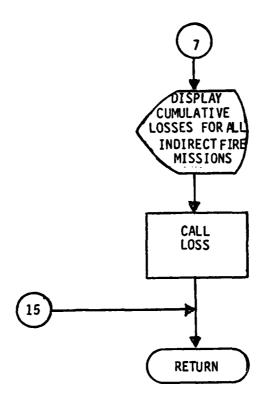


Figure H-2 CANNON

flow diagram (concluded).

SECTION III. SUBROUTINE CLGP

H-III-1. SUBROUTINE DESCRIPTION. Subroutine CLGP is accessed from the indirect fire program to determine losses of Red weapons to Blue CLGP fire. The gamer inputs required are the number of CLGP missions to be fired, whether the aerial designator is in use and the cloud height. The losses are returned to the main program and displayed from there as part of the indirect fire results.

H-III-2. PROGRAM VARIABLES.

<u>Variable</u>	Description
ADUST	Dust effect factor
AKILL	Target losses to CLGP fire
BMT	Battery missions per tube
CM	Total CLGP missions fired
CMS	Missions fired counter
DUST	Dust array
FARD	Friendly barrage factor
FD	Fractional damage
FDF	Fire distribution factor
G	Percent not aborted
I	Firer weapon index
ICH	Cloud height
IEL	Do loop variable
INX	Aerial designation flag
IPSN	Positioning units index for contact
IS	Aerial designator flag
J	Firer force index
K	Target weapon index
KK	Infantry weapon index
L	Target for index
MAX	Maximum CLGP mission to fire
OA	Operational availability
OAV	Operational availability times percent not
	smoked
OPERA	Operational availability
PCNSM	Percent not smoked
PEXP	Terrain adjustment factor
PRCN	GLLD suppression or RPV survivability factor
PLOSS	Total victims killed
PREC	CLGP SSKPs and GLLD suppression factor
R	Number of CLGP rounds fired
\$	Response control switch
T	Number of targets available to CLGP firer
T A RD ·	Threat barrage factor

NOTE: All common variables are defined in appendix F.

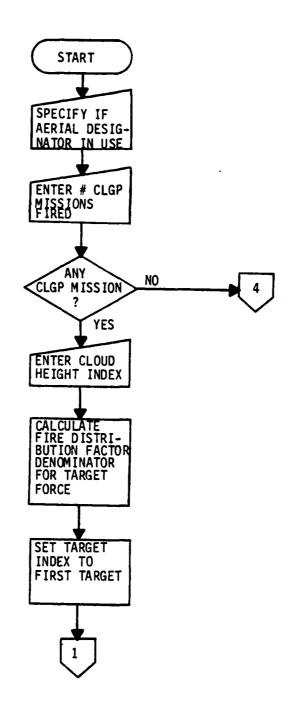
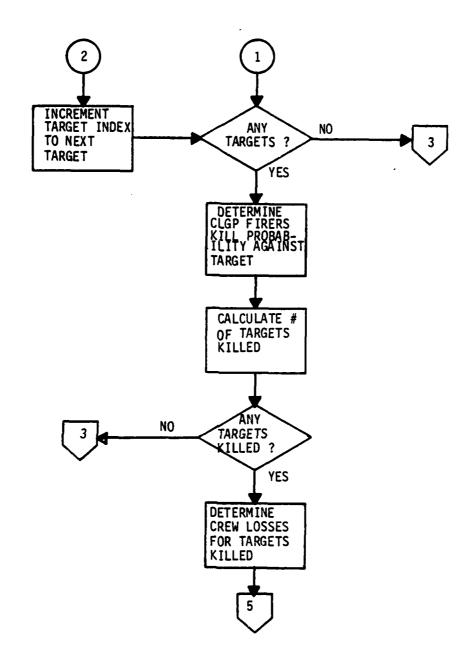


Figure H-3 CLGP flow diagram. (Continued next page)



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Figure H-3 CLGP flow diagram (continued).

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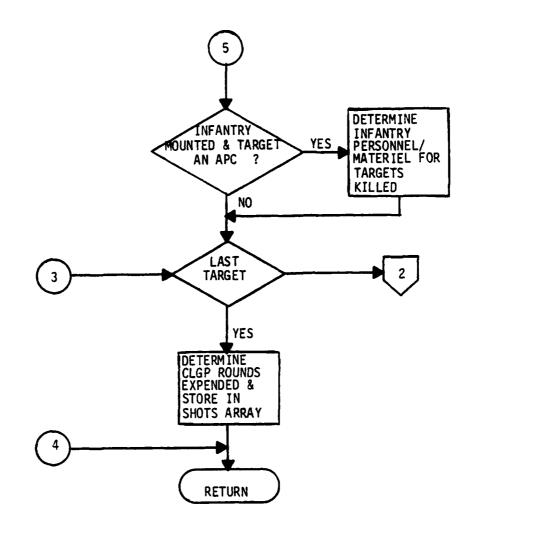


Figure H-3 CLGP flow diagram (concluded).

SECTION IV. SUBROUTINE FASCAM

H-IV-1. SUBROUTINE DESCRIPTION. This subroutine contains the logic used to assess losses to minefields composed of scatterable mines (FASCAM). The subroutine is called from the mine subroutine whenever the gamer specifies that a FASCAM minefield assessment is being processed. Although the assessment computation logic is essentially the same as for conventional minefields, the FASCAM minefields require a different set of inputs and casualty rate data.

H-IV-2. PROGRAM VARIABLES.

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<u>Variable</u>	<u>Description</u>
AKILL	Attacker weapon system kills
CLOST	Crewmen lost
DEPTH FATCAS	Minefield depth array Percent tank casualties by FASCAM mines
FPCAS	Percent tank casualties by FASCAM mines
FROBY	Minefield frontage bypassed by attacker
FRONT	Minefield frontage
II	Type of FASCAM delivery system
INX	Input response variable
J	Force index
K	Target weapon index
KK	Target weapon index
Р	Percent of force entering minefield
PERCOV	Percent of units front covered by mines
PLOSS	Total victims killed
PMFNBY	Percent of MP not bypassed by attacker
TRZONE	Terrain trafficable by armor

NOTE: All common variables are defined in appendix F.

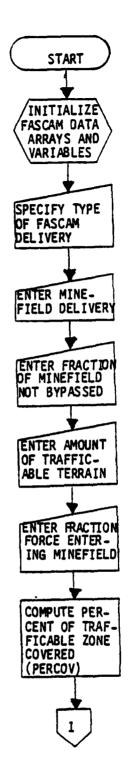
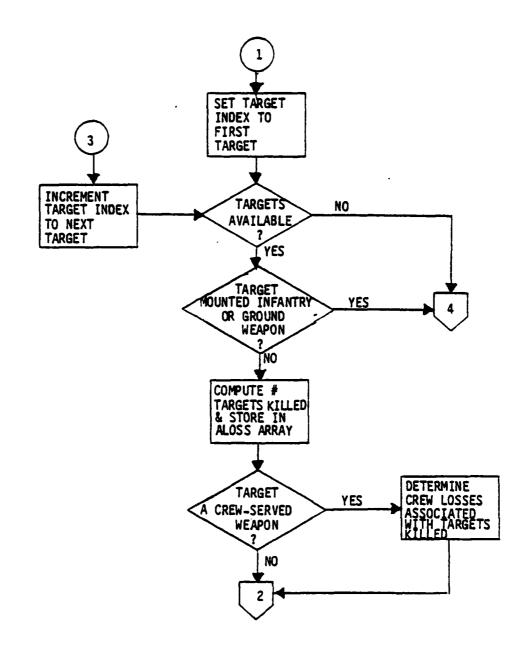


Figure H-4 FASCAM (Continued next page)

flow diagram.



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Figure H-4 FASCAM flow diagram (continued).

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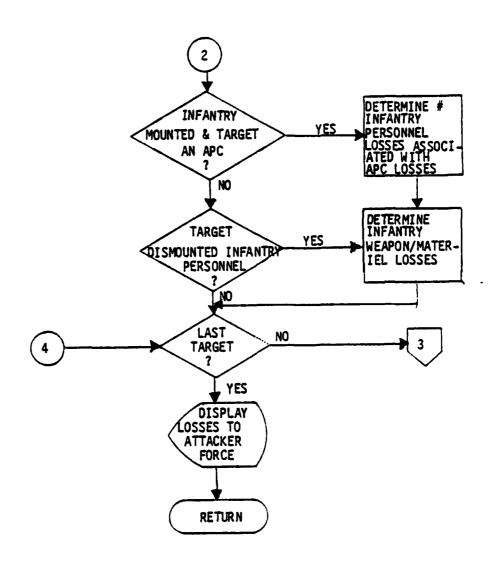


Figure H-4 FASCAM flow diagram (concluded).

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SECTION V. SUBROUTINE INFANT

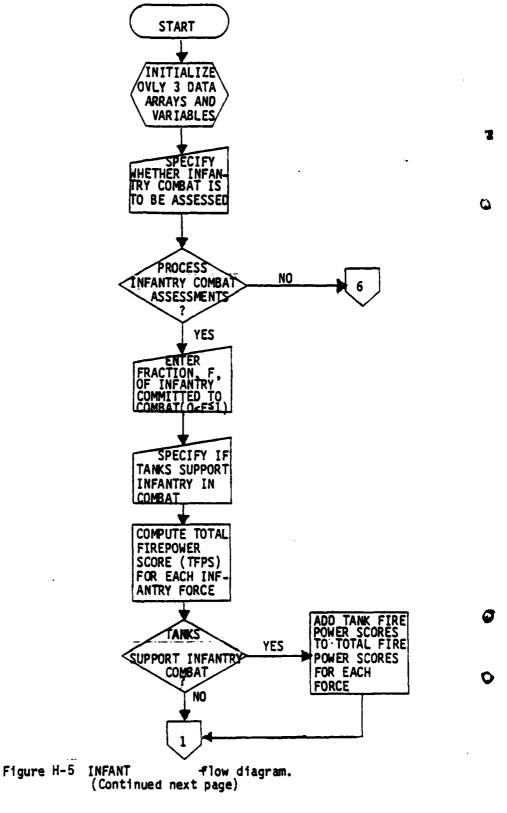
H-V-I. SUBROUTINE DESCRIPTION. INFANT is the fourth of the combat assessment routines called in the main Jiffy Game program from decision point 3 (see table 1). It is called whenever both forces contain infantry personnel in the weapon system (ELMT) array. The function of this subroutine is to compute and display the losses incurred as a result of dismounted infantry combat for the sector being gamed. The subroutine requires a number of interactive gamer inputs, which set the parameters necessary to carry out a one-time assessment of ambush and/or conventional dismounted infantry combat casualties suffered by each force. When assessments are finished, the results are displayed, the LOSS routine is called, and control is returned to the main program.

H-V-2. PROGRAM VARIABLES.

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<u>Variable</u>	<u>Description</u>
A	Ambush personnel casualty rate
AHI	History file parameter
AIL	Infantry attacker losses
AT	Personnel allocated to infantry attack
ATRIT	Personnel casualties for ambushed unit
DF	Defender's personnel casualty rate
DIL	Infantry defender losses
DT	Personnel allocated to infantry defense
DTRIT	Personnel casualties for ambushing unit
F	Fraction of maneuver forces committed
FAC	Casualty rate resolution factor
GFPR	Ground combat firepower ratio
GFPS	Ground combat firepower scores
HR	Hours of combat for assessment
HRC	Hours of conventional combat
I	Target weapon index
IAA	Attacker index in ambush
IEL	Defender index
O IFLAG	Logic flag
INDEX	Target weapon flag
INX	Hours of infantry attack
J	Force index
O KIND	Force color
L	Target force index
STABLE	Casualty rate index determiner array
TABLE	Ground combat personnel casualty rate
TABLE 3	Ambush personnel casualties

NOTE: All common variables are defined in appendix F.



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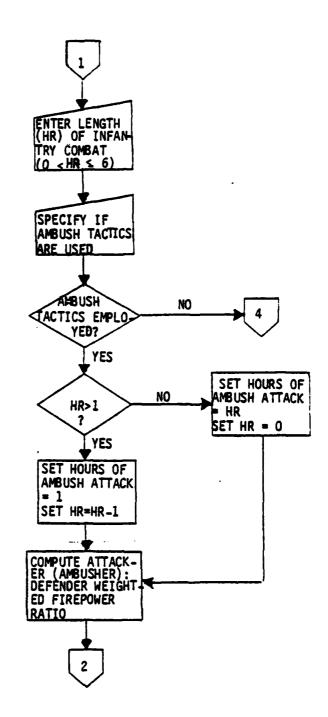


Figure H-5 INFANT

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flow diagram (continued).

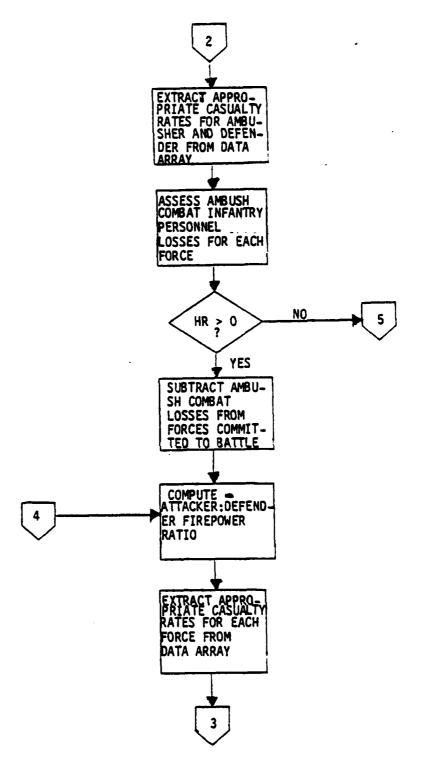


Figure H-5 INFANT

flow diagram (continued).

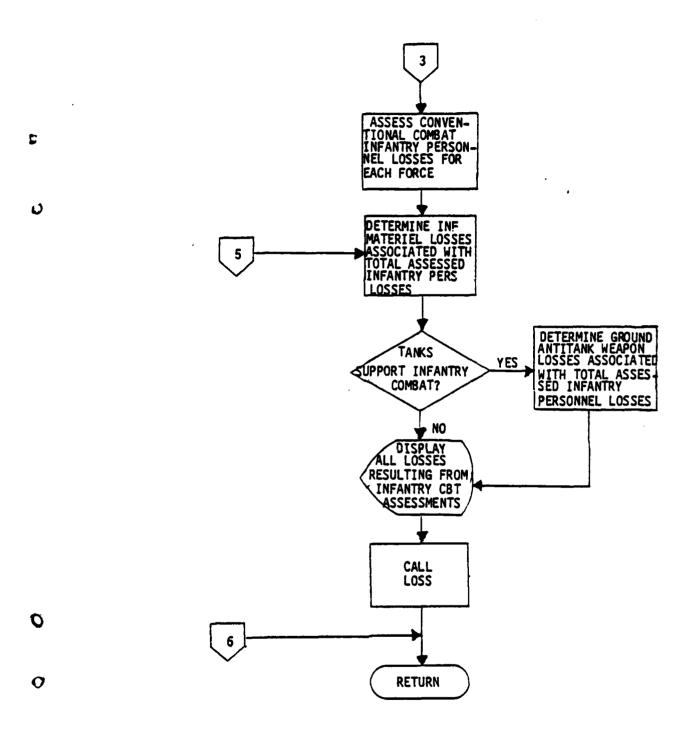


Figure H-5. INFANT

flow diagram (concluded).

SECTION VI. SUBROUTINE MINE

H-VI-1. SUBROUTINE DESCRIPTION. The primary function of the MINE program is to assess and display the losses suffered by the attacking force to minefields emplaced manually or mechanically (i.e., conventional minefields). MINE also contains the control point at which the type of minefield employed is specified interactively by the gamer. At the end of any minefield assessment, the program returns to this control point; thus, several assessments can be processed employing the same or different types of minefields before control is returned to the supervisory program. Only a minimal amount of data is needed to assess minefield losses; most of the necessary parameters are set interactively by gamer inputs. The processing of assessments is terminated from the control point. After which the LOSS subroutine is called and control is returned to the main program.

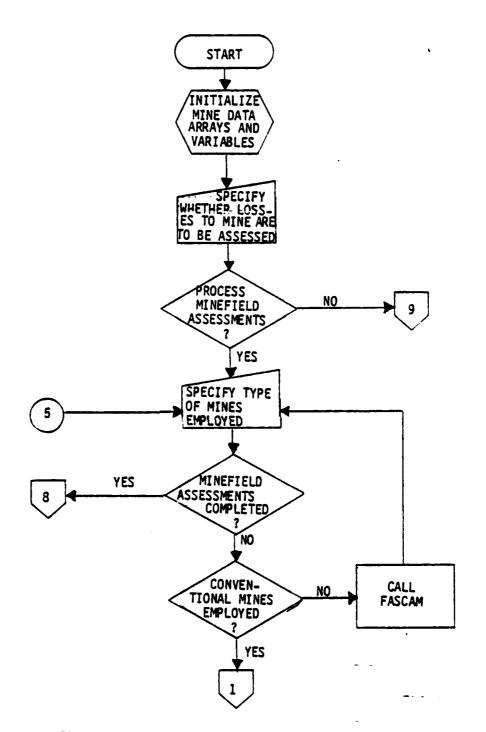
H-VI-2. PROGRAM VARIABLES.

<u>Variable</u>	<u>Description</u>
AFRONT	Minefield frontage input variable
AHI	History file parameter
AKILL	Attacker weapon system kills
ATDEN	Antitank minefield (MF) density per square meter
ATFAC	Percent tank losses by antitank mines
BMPL	Mine planter platoons
CLOST	Crewmen losses for productive time lost due to enemy
FROBY	Minefield frontage bypassed by attacker
FRONT	Potential minefield frontage
HOURS	Hours required to lay MF strip
HRMAN	Man-hours available for emplacement of mines
HRREQ	Man-hours required to manually emplace mines
IND	Type of mine employment index
INX	Input response variable
IOK	Logic flag
J	Antitank mine density index
K	Target weapon system index
KIND	Force Color
KK	Infantry weapon system index
NUMEN	Number men to emplace mines
Р	Percent of force entering minefield
PERCAS	Percent AP mines personnel casualties
PERCOV	Percent of unit's front covered by mines
PHR	Man hours available
PLOSS	Total victims killed

Variable	Description
PMFNBY	Percent of MF not bypassed by attacker
RNMPH	Mine planter hours available
STRIPW	Minefield strip width
TRZONE	Terrain trafficable by armor
WDEGF	Work degradation factor
X	Mine density input variable

NOTE: All common variables are defined in appendix F.

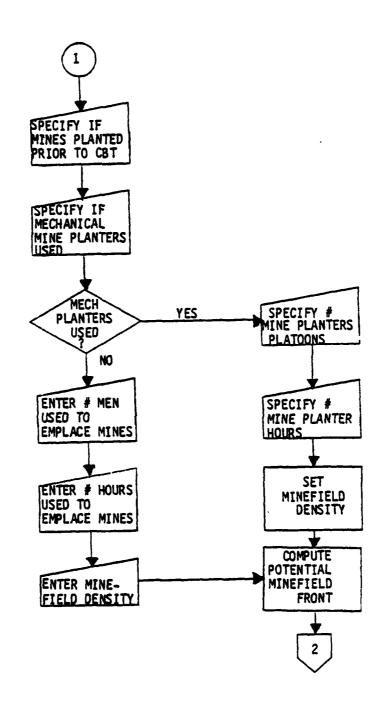
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Figure H-6 MINE flow diagram. (Continued next page)



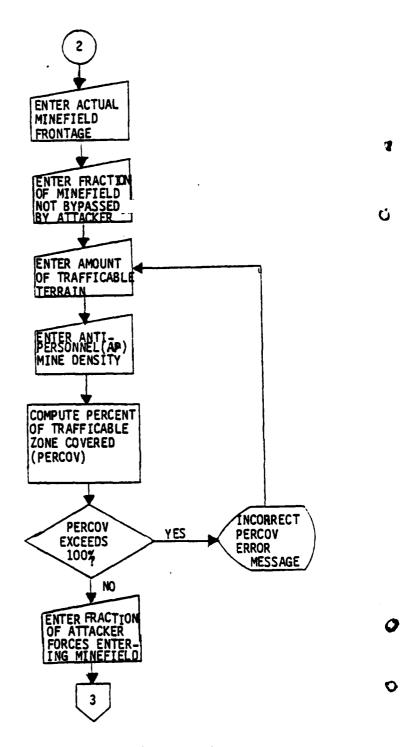
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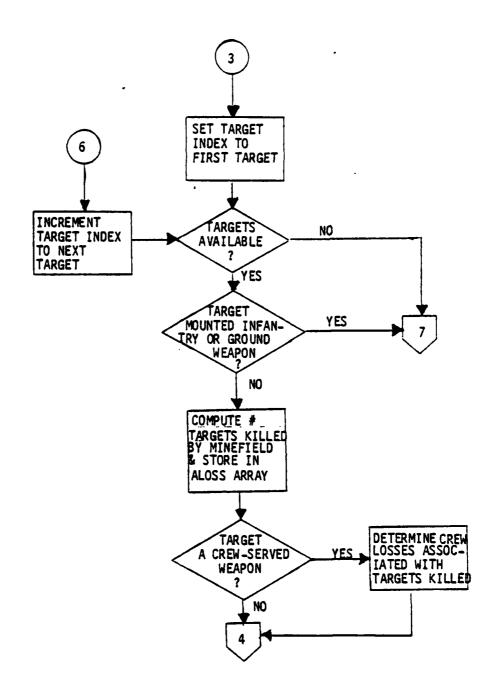
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Figure μ_{-6} MINE flow diagram (continued).



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Figure H-6 MINE flow diagram (continued).



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Figure H-6 MINE flow diagram (continued).

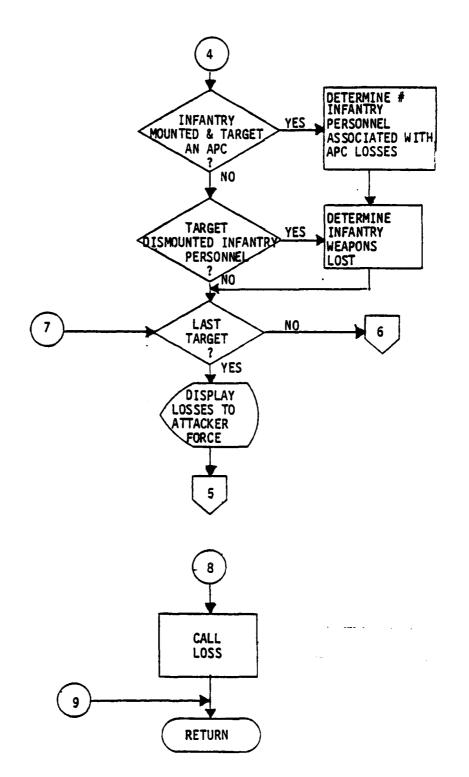


Figure H-6 MINE flow diagram (concluded).

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SECTION VII. SUBROUTINE TANK

H-VII-1. SUBROUTINE DESCRIPTION. TANK is the third of the combat assessment routines called in the main Jiffy Game program from DECISION POINT number 3 (see table 1). In this routine, the losses due to combat involving tanks, other armored combat vehicles, and antitank weapons are calculated and displayed. The TANK routine cycles through a series of nested DO loops in assessing losses for each possible combination of targets and firers for both forces. The gamer inputs a range band index, which initiates the assessment logic cycle. At the end of each assessment cycle, the gamer either inputs another range band index to continue with another cycle or signals that the assessments are completed. When the assessments are finished, the results are displayed, the LOSS subroutine is called, and control in returned to the SUPER.

Description

H-VII-2. PROGRAM VARIABLES.

Variable.

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	variable	Description
	A	Acquisition data array
	ABORT	Missile abort factor
	ACQ	Acquisition discriminator
	ADUST	Dust effects factor
	AH1	Starts record identifier
	AKILL	Current losses to weapon systems
	ATCREW	Number of infantrymen killed per antitank weapon
	BLUE	Blue weapon system cumulative losses
	CLOST	Crewmen losses
	DUST	Dust array
	ELMTS	Total number of targets
	ELS	Total number of firers
	FARD	Friendly barrage factors
	FDF	Fire distribution factor
	FIRE	Expected number of completed firings
	FIRE1	Optimal expected number of firings
Q	FIRE2	Optimal expected number of firings
	FOX	Expected number of firing multiplication factor
	I	Firer weapon index
O	IAM	States record ammo index
	IBAMMO	Blue round index
	ICAT	Target weighting category
	IFLAG	Flag for displaying/suppressing table header
	IFLAG2	Loss hender flag
	II	Range index
	INC	. History file parameter index

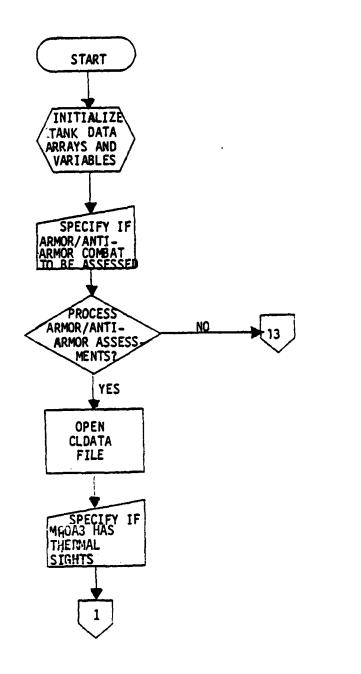
<u>Variable</u>	<u>Description</u>	
INX	Input response variable	
IOV2	Debug print flag	
IPUT	Put call switch	
IPSN	Positioning units index for attacker/defender	
IRAMMO	Red round index	_
I SUP	Suppression degradation factor index	4
ITARR	Target documentation array	
ITEST1	First firer in debug run	
ITEST2	Last firer in debug run	
ITYP	Ammunition type index	Ú
ITPASS	Visibility pass number	•
IVVL	Target vulnerability category	
J	Firer force index	
JDAY	Day/night condition variable	
JFLAG	Logical variable	
JJ	Attacker/defender firer force index	
JOPT	Optical/thermal flag	
JPSN	Positioning units index for contact	
JSEAS	Season variable	
JTERR	Terrain variable	
JTERRN	Terrain type array	
JTEST1	Side debug variable	
JTEST2	Side debug variable	
JVIS	Visibility variable	
K	Target weapon index	
KFLAG	Initial contact flag	
KIND	Force color	
KK	Category type index	
KT	Expected number of completed firings firer	
	index	
KTEST1	First target in debug run	
KTEST2	Last target in debug run	
Ĺ	Target force index	
LL	Attacker/defender target force index	
M	Weapon system (target) index	
MAXR	Range index	
N	Weapon system (target) index	
NWD	History file field index	
N1	History file field index	0
N2	History file field index	
OPERA	Weapon system operational availability	
Р	Gamer percent response variable	
PCOM	Percent committed by range band	Ø
PICKET	Percent of targets visible	•
PKILL	Target's survival probability against firer	
PLOSS	Current losses to weapon systems	
PNSMK	Percent not smoked variable	
POPT	Optical Pickett factor	
		-

	<u>Variable</u>	Description
	PSS	Percent self-smoked by range band
	PTHM	Thermal Pickett factor
0	PVN	Percent not smoked array
	RED	Red weapon system cumulative losses
	ROUNDS	Ammunition fired per target
	SET	Thermal/Optical flag
	SKILL	Loss apportionment factor denominator
U	SS	Defilade SSKP/Final SSKP
	SSKP	Weapon system single shot kill probability
	SSS	Fully exposed SSKP
	SUP	Suppression variable
	SUPDEG	Suppression degradation factor coefficient
	TARD	Threat barrage factors
	TKILL	Targets killed '
	VICTIM	Firer's target
	VISDEG	Visibility degradation factor
	WTS	Weapon system category weights
	XN	Weapon system engagements
	XFDF	Fire distribution factor

NOTE: All common variables are defined in appendix F.

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Figure H-7. Tank flow diagram. (Continued next page)

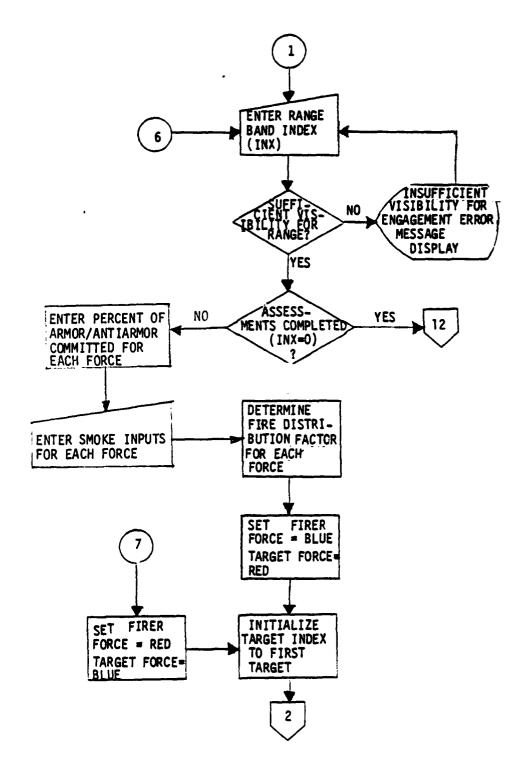


Figure H-7 tank flow diagram (continued).

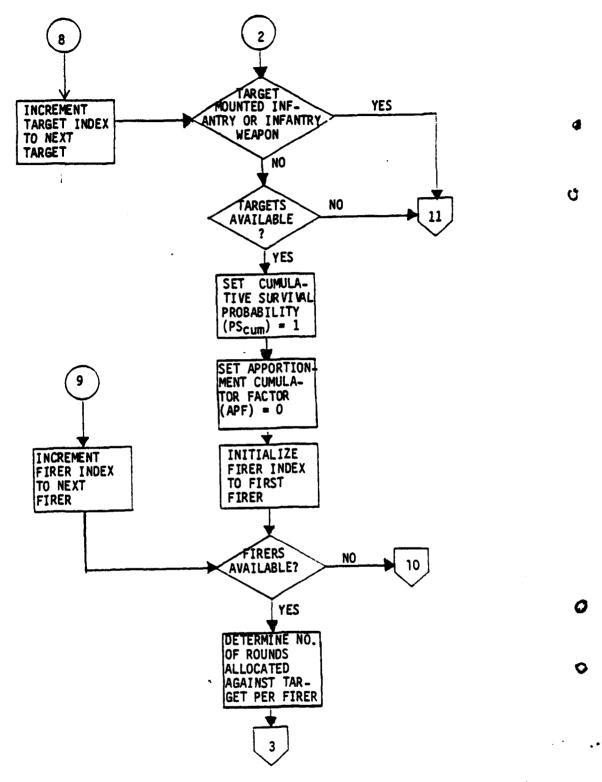
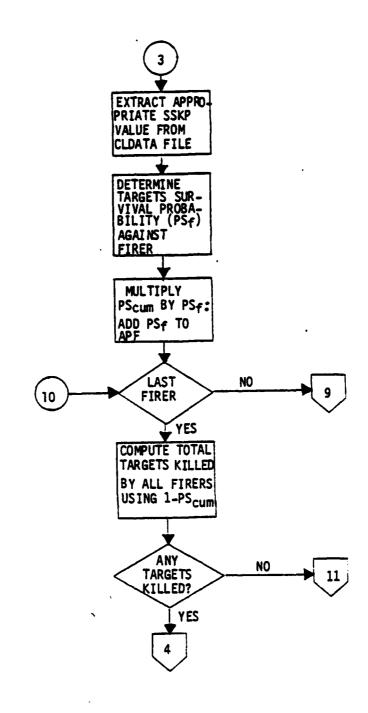


Figure H-7 Tank flow diagram (continued). H=52

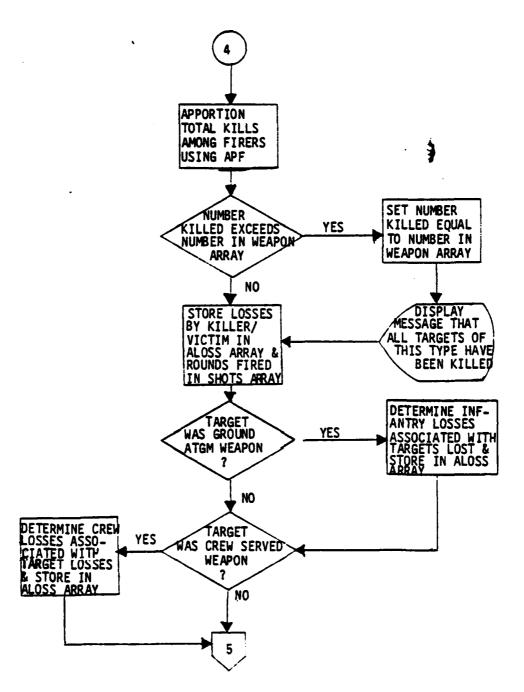


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Figure H-7 Tank flow diagram (continued).

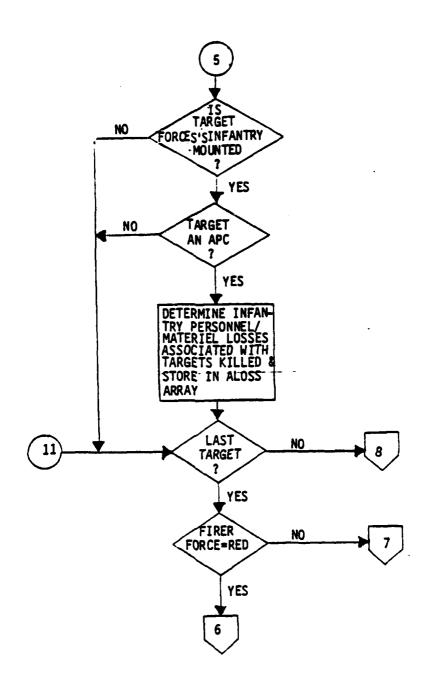


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Figure H-7 Tank flow diagram (continued).



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Figure H-7 Tank flow diagram (continued).

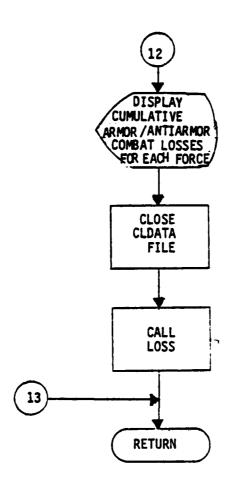


Figure H-7 Tank flow diagram (concluded).

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Service Services

RECORD KEEPING SUBROUTINES

Section	I	APPORT
Section	II	BUILD
Section	III	CKACI
Section	IV	CKSTOR
Section	٧	CLEAR
Section	VI	COMBINE
Section	VII	DISPLAY
Section	VIII	ENDCI
Section	IX	FORCE
Section	X	LOSS
Section	XI	NEWHIS
Section	XII	RESET
Section	XIII	RESTART
Section	XTV	SHOWCI

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SECTION I. SUBROUTINE APPORT

I-I-1. SUBROUTINE DESCRIPTION. This subroutine apportions the personnel casualties and weapon system losses determined in the Jiffy III Game combat assessment routines to the units on the FORCE file. The apportionment is based on an algorithm that considers quantity of losses, number of weapon systems in the unit, and the level of combat intensity of the actions in which the unit was involved during the assessment period. The combat intensity level for each unit in a given sector during a critical incident is input interactively by the gamers. The APPORT subroutine also compiles the cumulative combat statistics of all sectors for the entire critical incident. The cumulative loss and ammunition expenditures are kept on the HISTORY file. This subroutine also provides the gamers with the capability to display any specific parent unit or unit after the apportionment process by calling the DISPLAY subroutine.

I-I-2. PROGRAM VARIABLES.

	<u>Variable</u>	<u>Description</u>
	AAHI	History file parameter
	AHI	History file parameter
	AIRKO	Quantity of given type weapons lost to
		TACAIR being apportioned to unit
	AKO	Quantity of given type weapons lost to
		ground actions being apportioned to unit
	CBTINT	Combat intensity factor
	CIL	Combat intensity level factor
	CLOST	Number of crew personnel lost
	CUMLOS	Parent unit loss array
	DAIR	Quantity of weapon systems subject to
		apportionment for TACAIR losses
	FS	Direct fire loss accumulator
	HOLD	Array (I+10) for current value of I
	Ī	File record word index; weapon system index
_	ĪCIL	Combat intensity level index
0	I EFF	Variable format array
	IFLAG	Logic flag
	IFOR	Variable format array
	IHEAD	Variable format array
0	IHOLD	Automatic CIL allocation indicator
_	II	Weapon system index
	INC	History file parameter index
	INT	Gamer response variable
	INX	Gamer response variable
	IPRNT	Variable format array
	IPUT	Put call switch
		· · · · · · · · · · · · · · · · · · ·

Variable	<u>Description</u>
` IUN	Do loop variable
IWD	Weapon system index
IWPN	Weapon system index
J	Force identifier
JFLAG	Do loop index flag
JJ	Force identifier
K	File record word index
KIND	Force coler
KNT	States counter
LHOLD	Scratch variable for combat intensity
L1	Do loop lower bond
L2	Do loop upper bond
M_	Index-sequential file status variable
MFLAG	Sector and CI flag
NEM	Record existance flag
NPRNTS	Print control flag
NUNIT	Unit counter
NWD	AD losses index
NWPN	States weapon index
PAK	Large pack array
PAREFF	Parent unit effectiveness
PARENT	Parent unit identifier
PARFPS	Total parent fire power score
PARINIT	Initial firepower score of parent unit
PERS	Number of non-infantry personnel casualties
REMAIN	Weapons remaining
RLOST	Weapon remaining
SHRT	Direct fire loss accumulator
TFPS	Total firepower score
UEFF	Unit effectiveness
XL .	Packed weapon system losses to all types of combat
XN	Unpacked weapon system losses to all types of combat

NOTE: All common variables are defined in appendix F.

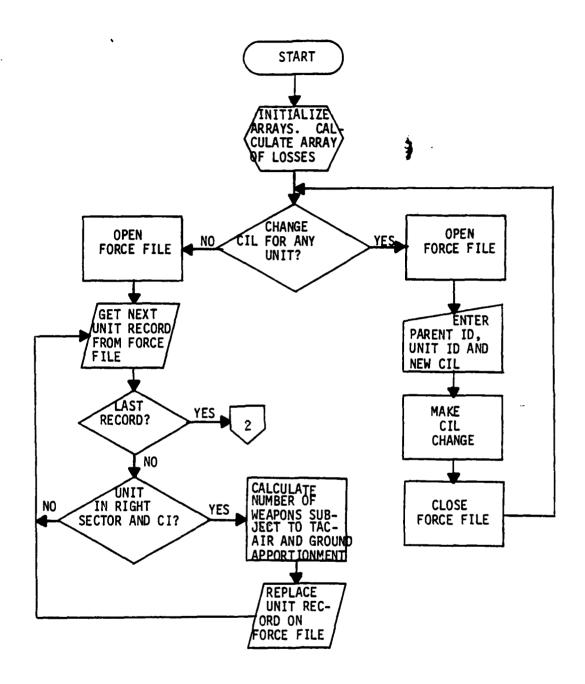


Figure I-1. APPORT flow diagram (continued next page)

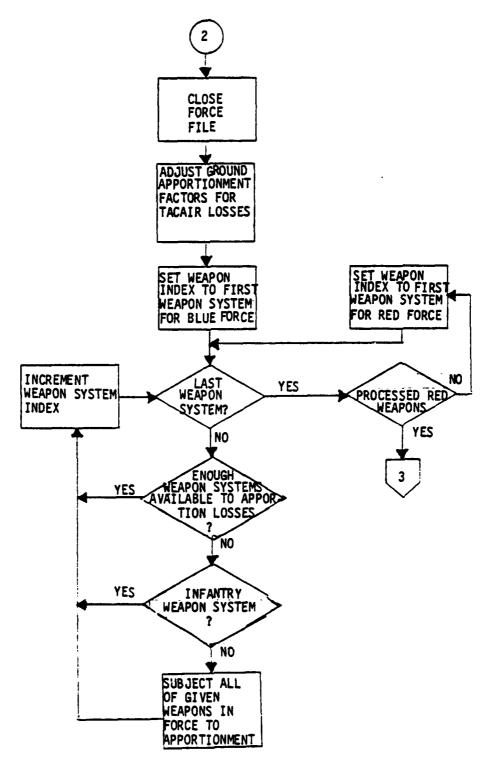


Figure 1-1 APPORT flow diagram (continued).

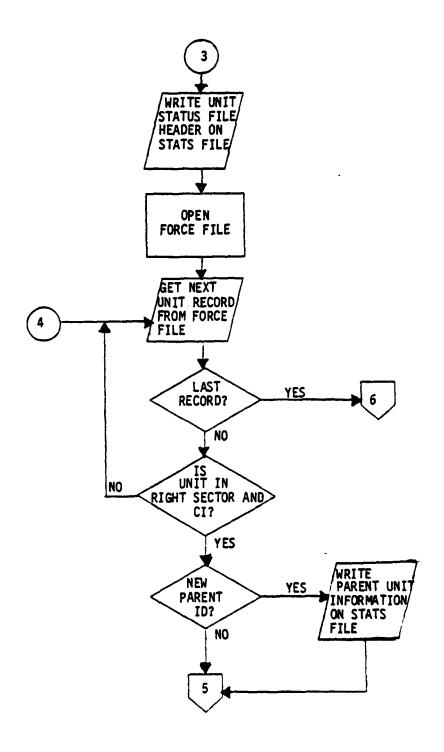


Figure I-1 APPORT flow diagram (continued).

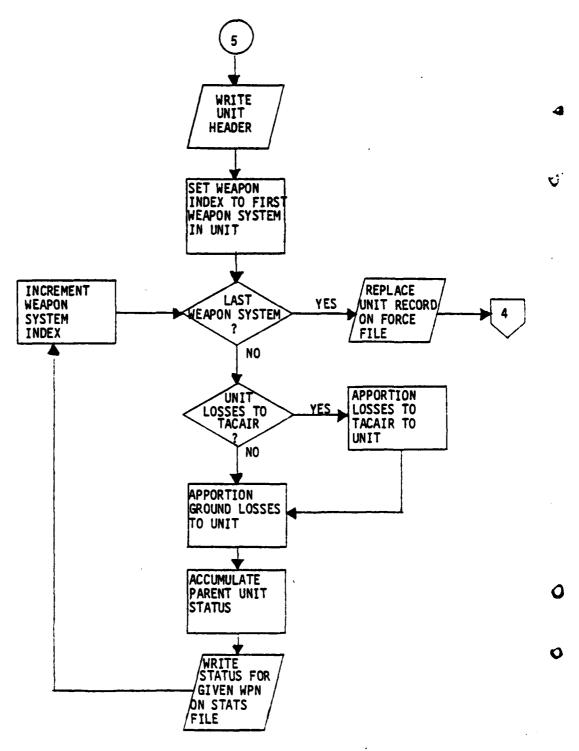


Figure I=1 APPORT flow diagram (continued).

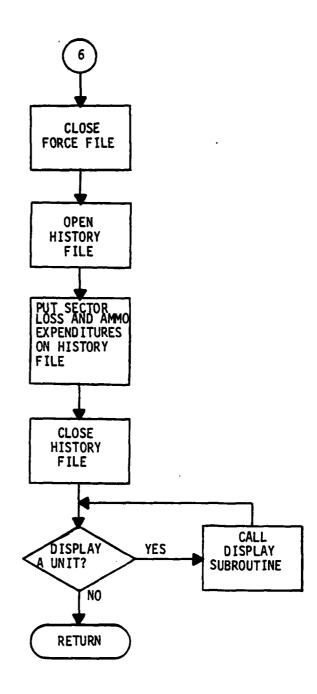


Figure I-1. APPORT flow diagram (concluded).

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SECTION II. SUBROUTINE BUILD

I-II-1. SUBROUTINE DESCRIPTION. BUILD is a duplicate of the SRC program. A copy of the SRC program was included in the Jiffy Game to provide the gamers the capability to create interactively new units in a force with existing or new SRCs during actual processing of the Jiffy Game. BUILD allows the gamers to develop new SRCs. The program logic flow diagram for BUILD is identical to the flow diagram presented for the SRC program.

I-II-2. PROGRAM VARIABLES.

Variable	<u>Description</u>		
AHOLD	First word of SRC record		
AJ	Quantity of weapons being entered		
ASRC	SRC identifier		
I	SRC record word index		
ĪID	Weapon system item code		
INX	Gamer response variable		
M	Index-sequential file status variable		
MM	Weapon item code being entered		
NN	Weapon item code word index		

NOTE: All common variables are defined in appendix F.

SECTION III. SUBROUTINE CKACI

I-III-1. SUBROUTINE DESCRIPTION. This subroutine checks that the force file and history file are compatible and that post processor requests are consistent with the CI information on the history file.

I-III-2. PROGRAM VARIABLES.

<u>Variable</u>	<u>Description</u>
AC IO	Old CI
CCI	CI name array
I	Do loop variable
M	Final position for force file
N	Do loop variable
NCHK	Sub-sequence CI flag
NCAST	Last CI flag
NO	Zero word index on CI record
N1	Initial CI index on CI record
N2	Final CI index on CI record
WRD1	Scratch variable for history file fields
WRD2	Scratch variable for history file fields
XN	Flag for history file field

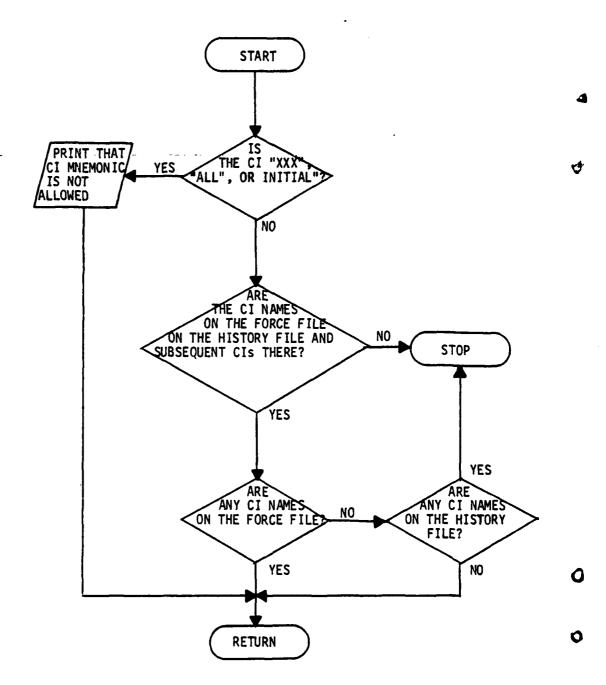


Figure I-3. CKACI flow diagram.

SECTION IV. SUBROUTINE CKSTOR

I-IV-1. SUBROUTINE DESCRIPTION. This subroutine checks to determine if a record should be a replacement for an old record on the HISTORY file or be inputted as an entirely new HISTORY file record.

I-IV-2. PROGRAM VARIABLES.

<u>Variable</u>	<u>Description</u>
AH1	Stats record type
I	Do loop variable
IPUT	History file record flag
N1	Beginning index for stats record initialization
N2	Final index for stats record initialization

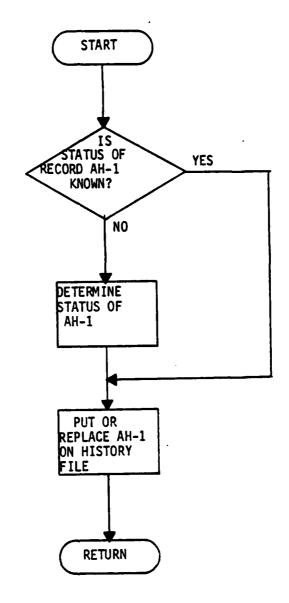


Figure I-4. CKSTOR flow diagram.

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SECTION V. SUBROUTINE CLEAR

I-V-1. SUBROUTINE DESCRIPTION. This subroutine clears the HISTORY file records of a sector that is about to be regamed.

I-V-2. PROGRAM VARIABLES.

	<u>Variable</u>	Description
	I	Do loop index
,	II	Do loop index
	M	Final position of history file
	NN	Stats record key length
	RECS	Array of stats record names

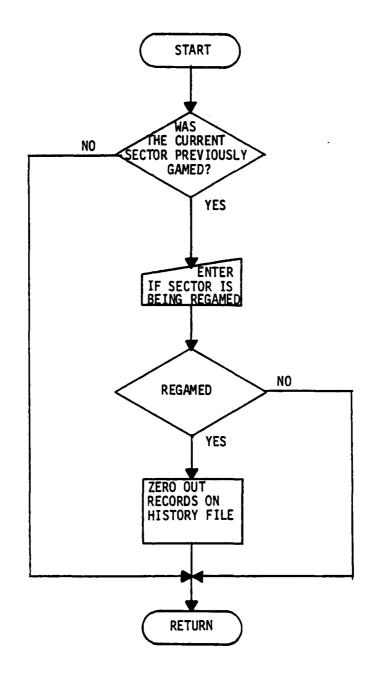


Figure I-5. CLEAR flow diagram.

SECTION VI. SUBROUTINE COMBINE

I-VI-1. SUBROUTINE DESCRIPTION. This subroutine allows the user to automatically remove a unit from the forcefile and causes its assets to be added to another unit. It is used by the gamer to disband a unit that has suffered heavy losses.

I-VI-2. PROGRAM VARIABLES.

<u>Variable</u>	<u>Description</u>	
DPAR	Parent of disbanding unit	
DUNIT	Unit ID of disbanding unit	
HPAR	Parent of host unit	
HUNIT	Unit ID of host unit	
I	Weapon system index, logic flag	
W	Working array for Unit assets	

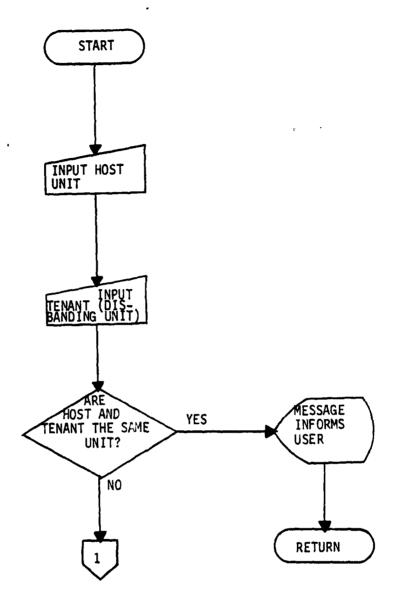


Figure I-6. COMBINE flow diagram (Continued next page).

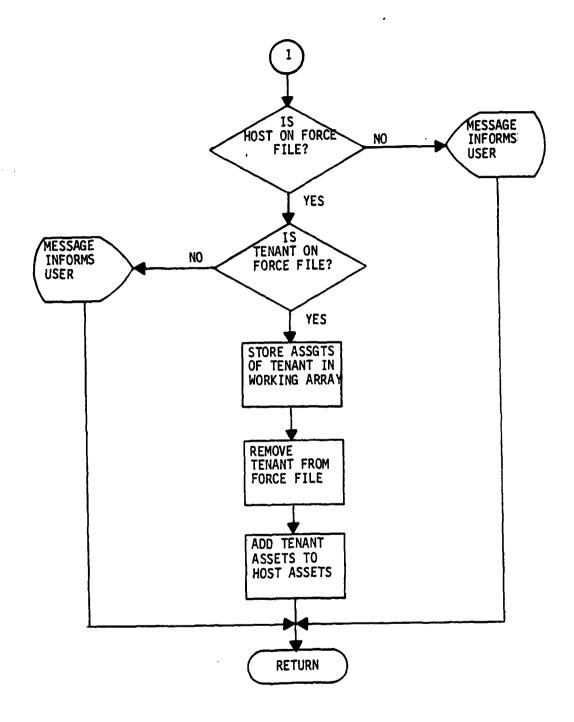


Figure I-6. COMBINE flow diagram (concluded).

SECTION VII. SUBROUTINE DISPLAY

I-VII-1. SUBROUTINE DESCRIPTION. This subroutine is called during gaming to display the status of specified units and parent units. The gamer has the option to display a particular unit or all units within a specified parent unit. The unit status parameters displayed include the unit effectiveness of the parent and subordinate unit(s) and the quantity and type of weapon systems remaining in each unit.

I-VII-2. PROGRAM VARIABLES.

<u>Description</u>		
Number of weapon systems		
Factor for combat intensity level		
Unit record word index		
Weapon system item code		
Print flag		
Increment counter		
Gamer response variable		
Force identifier		
File status variable		
Name of parent unit		
Number of particular weapon systems remaining in unit		
Total firepower score		
Unit effectiveness		
Name of unit		
Number of particular weapon system losses		

I-VII-3. TYPES OF DISPLAYS.

Display Index	Type <u>Display</u>	Information Displayed
1	Lists all parent units on FORCE file	Parent ID, force designator, Parent unit effectiveness, sector and critical incident
2	Lists all parent units in defined sector and critical incident	Parent ID, force designator and Parent unit effectiveness

	Display Index	Type <u>Display</u>	Information Displayed
&	3	Lists all units attached to a specific parent unit	Parent ID, Unit ID, force designator, unit effectiveness, sector and critical incident
৩	4	Lists all weapon rstemmin a mediac unit or t unit	Parent ID, Parent unit effectiveness, Unit ID, unit effectiveness, quantity and type of weapon systems.

NOTE: All come variables are defined in appendix F.

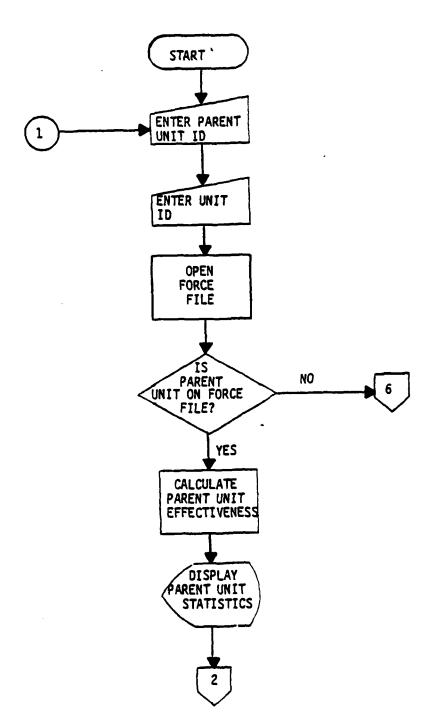
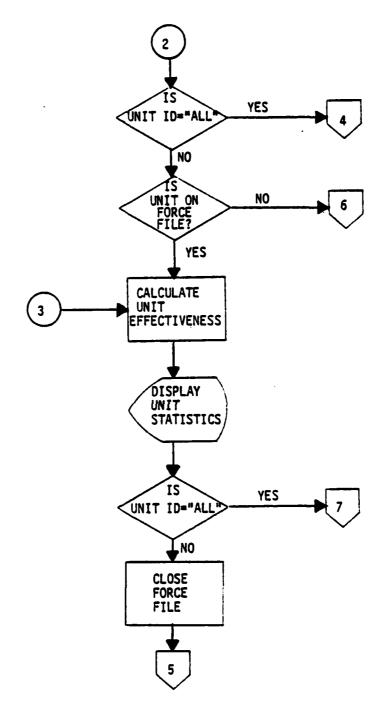
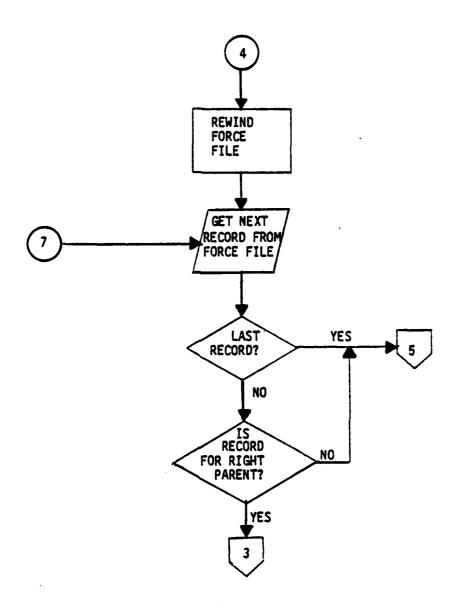


Figure I-7 DISPLAY flow diagram. (Continued next page)



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Figure I-7 DISPLAY flow diagram (continued).



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Figure I-7 DISPLAY flow diagram (continued).

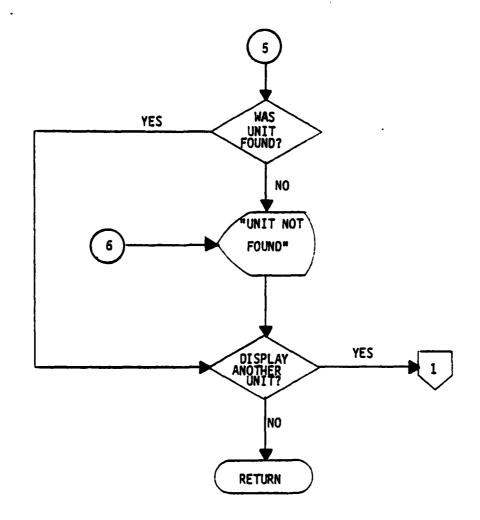


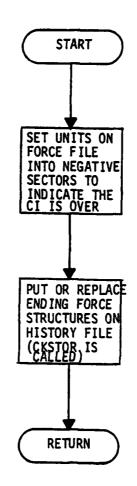
Figure I-Z DISPLAY flow: diagram (concluded).

SECTION VIII. SUBROUTINE ENDCI

I-VIII-1. SUBROUTINE DESCRIPTION. This subroutine performs end of CI booking on the history file and force file.

I-VIII-2. PROGRAM VARIABLES.

<u>Variable</u>	Description	
AH1	Stats record type	
1	Do loop variable	
IPUT	CKSTOR input parameter	
M	Final positions of force file	



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Figure I-8. ENDCI flow diagram.

SECTION IX. SUBROUTINE FORCE

I-IX-1. SUBROUTINE DESCRIPTION. FORCE is the subroutine by which the gamers manipulate their forces in the Jiffy Game. FORCE is reached by a gamer response of "1" at the DECISION POINT in SUPER (see table 1). After the gamer defines the critical incident and sector, he is presented his choice of the nine force manipulation options. Upon completion of all but OPTION 0, the game is returned to the OPTION point. A response of "0" loads the weapon systems of all units loaded into the defined sector and critical incident into the weapon system (ELMT) array for both forces and returns control to SUPER. The display option (6) provides the gamer the capability to examine the FORCE file in four ways. The four types of displays accessible at OPTION 6 are given in I-VII-3. Subroutine DISPLAY is used to display all four types.

I-IX-2. PROGRAM VARIABLES.

<u>Variable</u>	Description
Variable AH2 AJ AVN CIL CV I ICIL IEFF IFLAG IJ INC INX IPRO IPUT J JJ JREGM KIND M MM MM	Description History file parameter Quantity of weapons to adjust Parent variable Combat intensity level factors Relative effectiveness Do loop index Combat intensity level Unit effectiveness Logic flag SRC record weapon index Unit loaded counter Gamer response variable EW type Logic flag Force designator FORCE record weapon index Run type indicator Force color Indexed-sequential file status variable Type of weapons to adjust Storage position indicator
PAR PARENT	Parent unit ID Parent unit ID
TFPS UEFF UNIT XCI	Total firepower score Unit effectiveness Unit ID Critical incident name
XSECT	Sector number

I-IX-3. FORCE MANIPULATION OPTIONS.

۵	Response Code	Option Description
	0	Proceed with assessments
	1	Load units into sector
¥	2	Remove units from sector
	3	Create a new unit
	4	Adjust weapons in a unit
	5	Attach a unit to a new parent
	6	Display a unit
	7	Delete a unit from FORCE file
	8	To combine units

NOTE: All common variables are defined in appendix F.

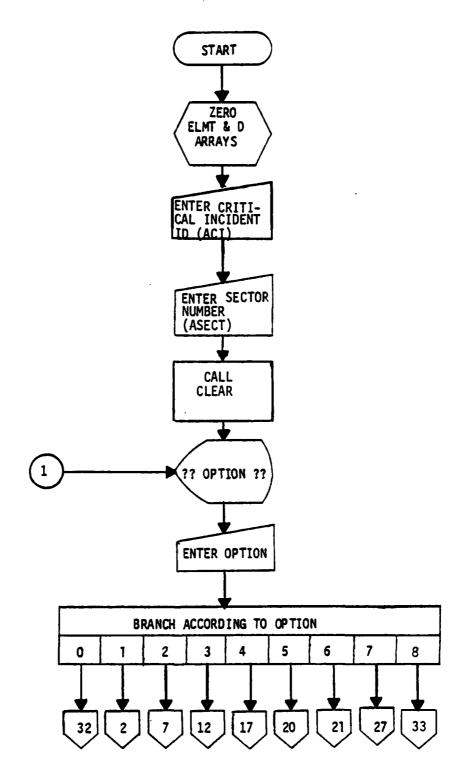


Figure I-9 FORCE flow diagram. (Continued next page)

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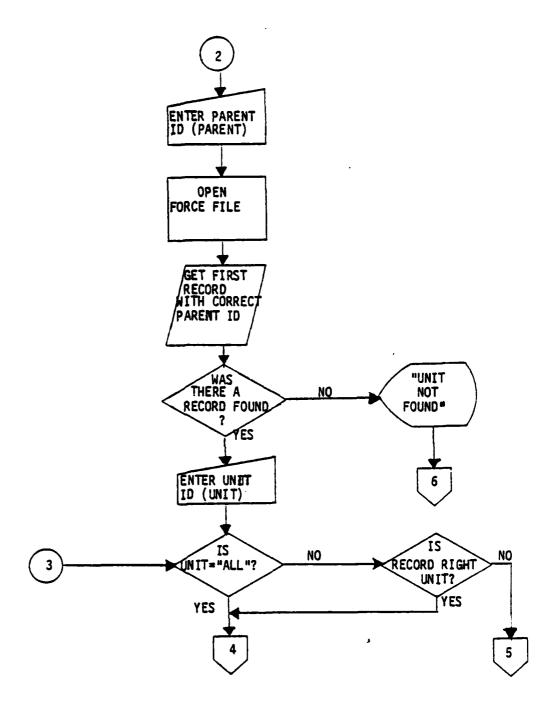


Figure I-9 FORCE flow diagram (continued).

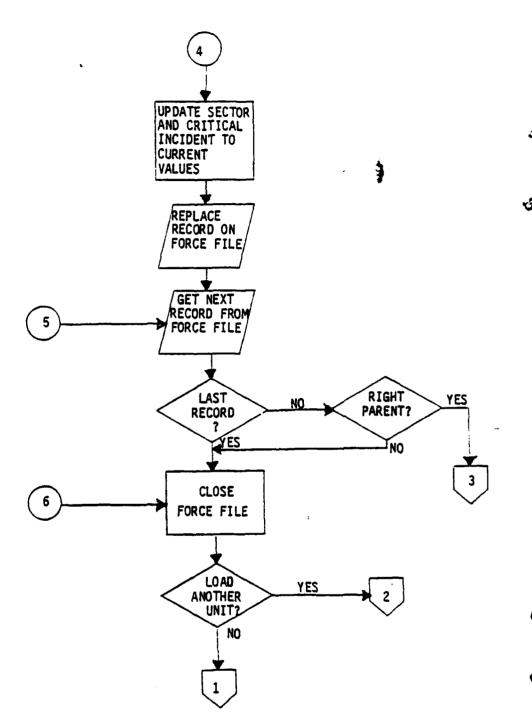


Figure I-9 FORCE flow diagram (continued).

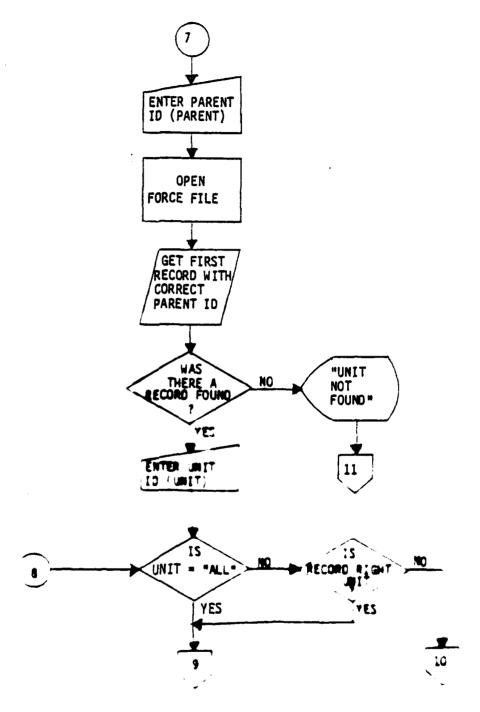


Figure I-9 FORCE flow diagram (continued).

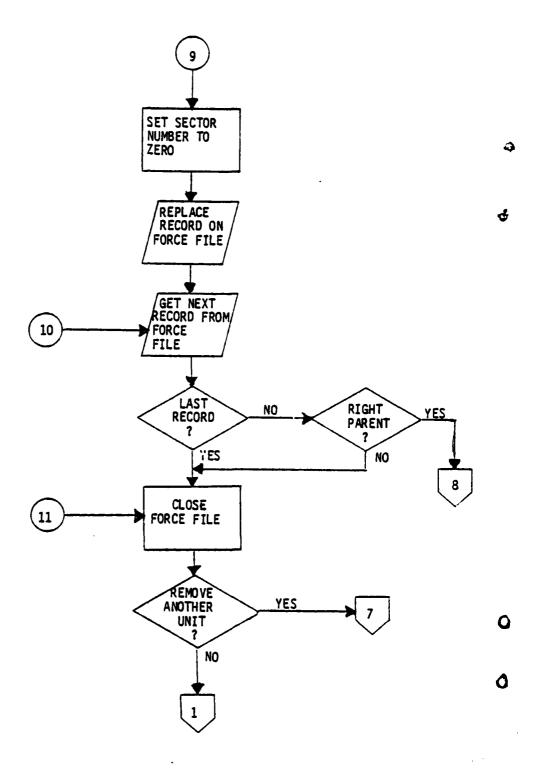


Figure I-9 FORCE flow diagram (continued).

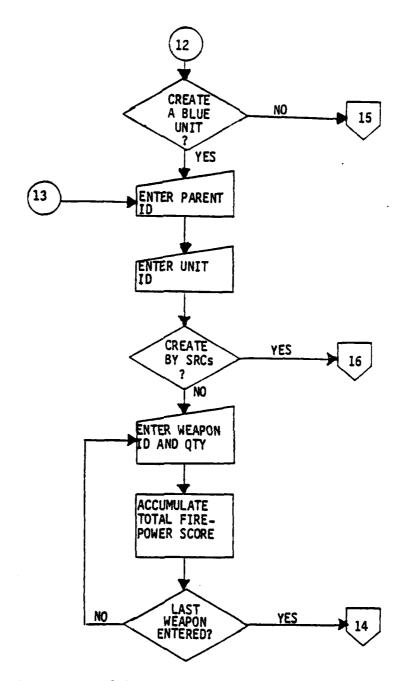


Figure I-9 FORCE flow diagram (continued).

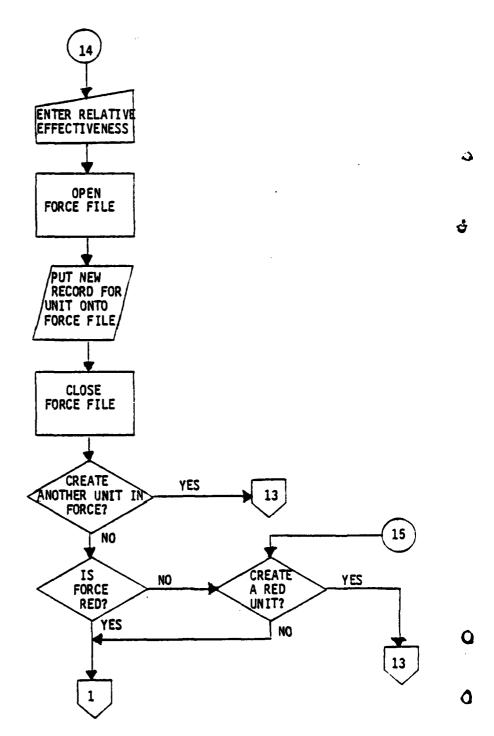


Figure I-9 FORCE flow diagram (continued).

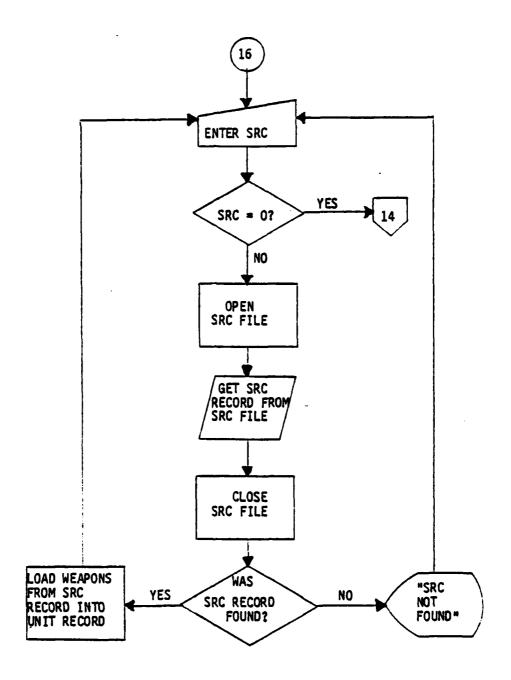
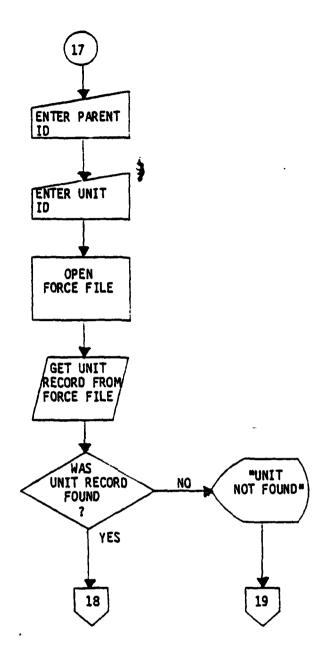


Figure I-9 FORCE flow diagram (continued).



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Figure I-9 FORCE flow diagram (continued).

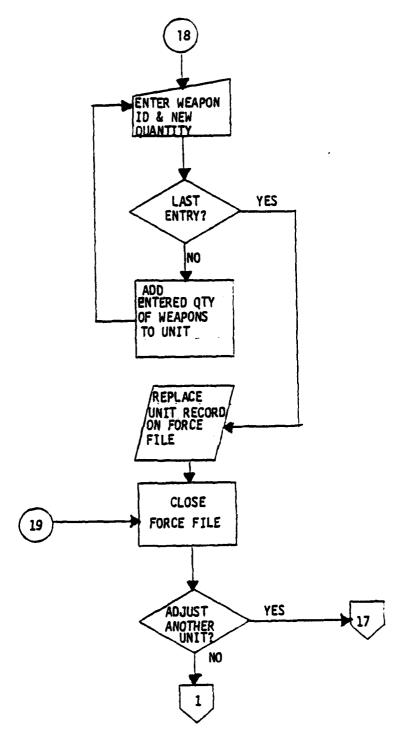


Figure I-9 FORCE flow diagram (continued).

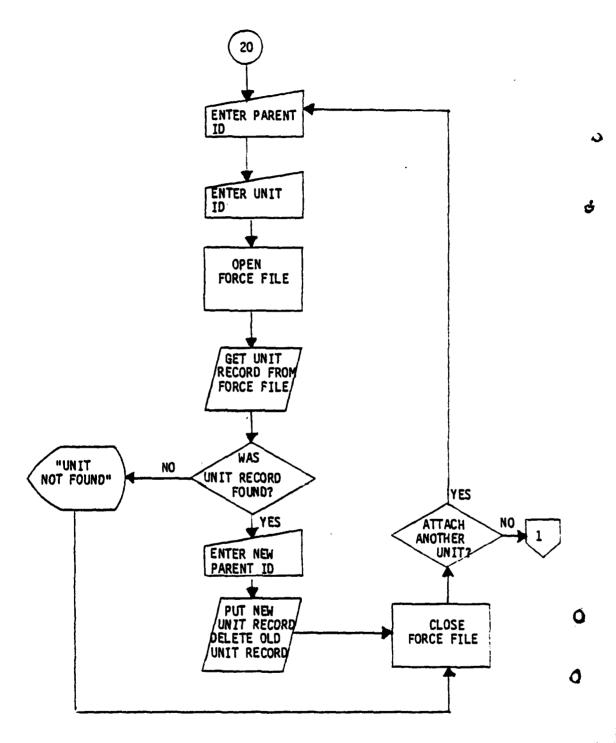


Figure I-9 FORCE flow diagram (continued).

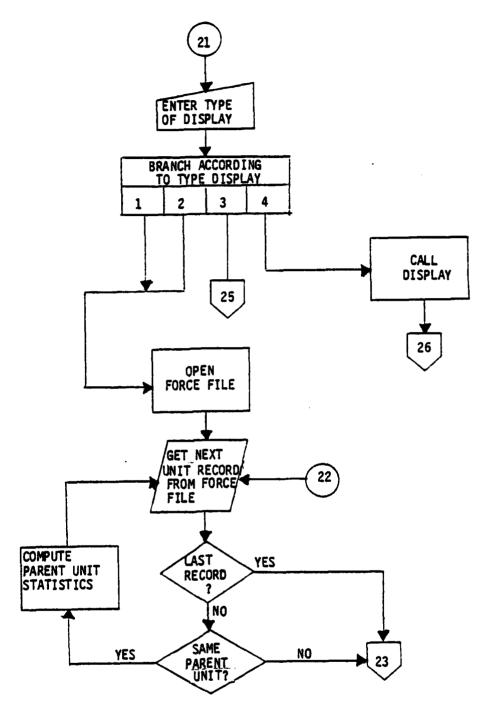


Figure I-9 FORCE flow diagram (continued).

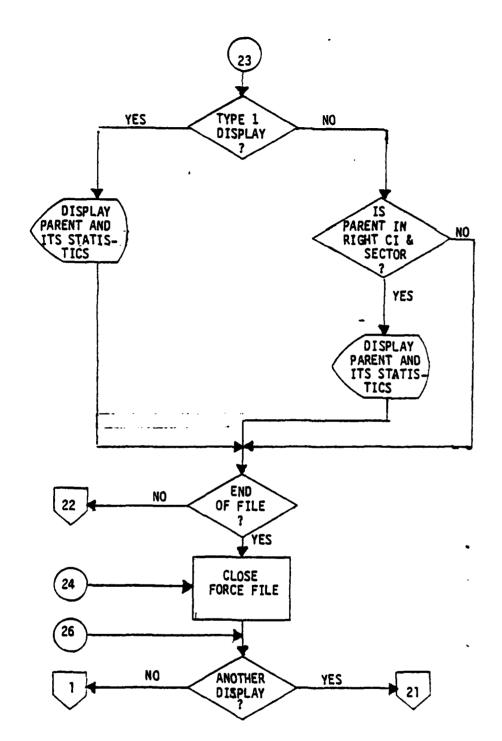
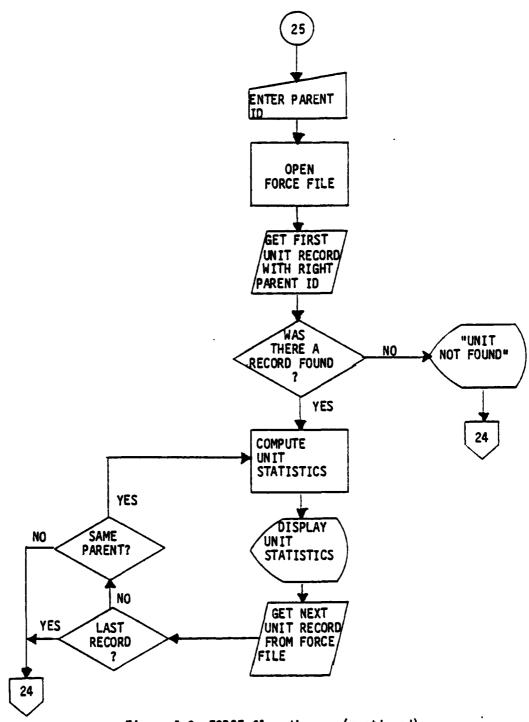


Figure I-9 FORCE flow diagram (continued).



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Figure I-9 FORCE flow diagram (continued).

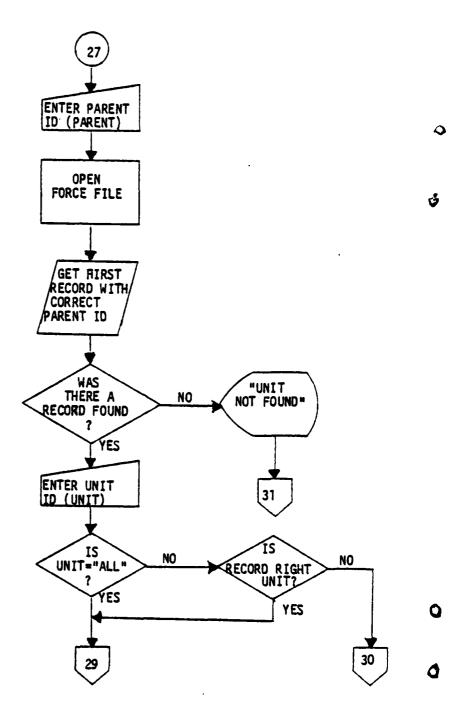
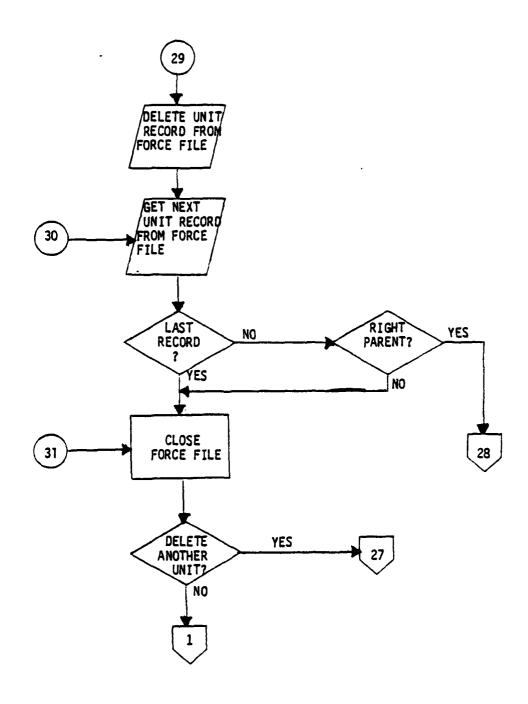


Figure 1-9 FORCE flow diagram (continued).



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Figure I-9 FORCE flow diagram (continued).

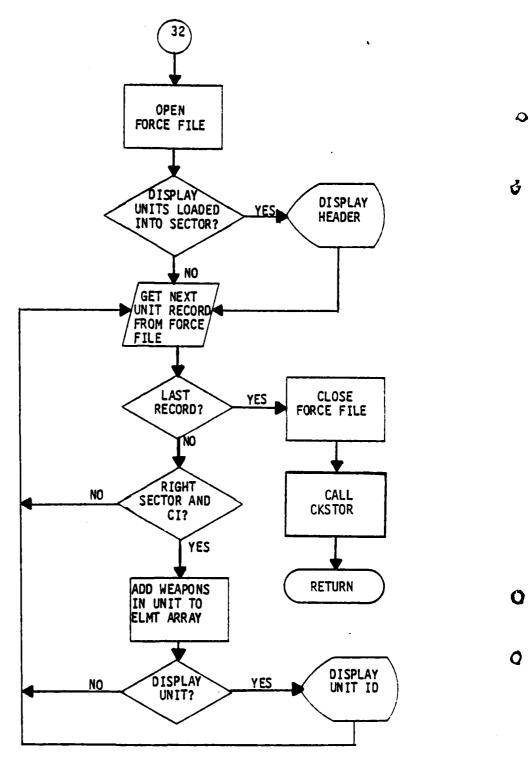
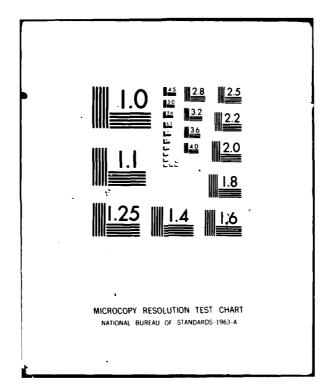


Figure I-9 FORCE flow diagram (continued)

ARMY COMBINED ARMS STUDIES AND ANALYSIS ACTIVITY FOR--ETC F/G 15/7 CACDA JIFFY III WAR GAME. VOLUME V. PROGRAMMER'S MANUAL.(U) OCT 80 C L PAO CASAA-TR-9-80 NL AD-AU92 783 UNCLASSIFIED 30.5



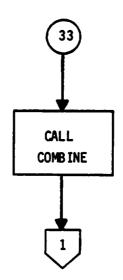


Figure I-9. FORCE flow diagram (concluded)

APPENDIX I

SECTION X. SUBROUTINE LOSS

I-X-1. SUBROUTINE DESCRIPTION. This subroutine is used to subtract weapon systems lost in the combat assessment subroutines from the weapon system arrays. This also allows the gamer to replay the combat, if the original assessment is for some reason invalid. LOSS stores the ammunition expended during a valid assessment in the ammo accumulator SHOTS.

I-X-2. PROGRAM VARIABLES.

Variable	<u>Description</u>
AKILL	The number of weapons type I kill by all firers
I	Firing weapon system index
INX	Gamer response variable
ISTART	Variable indexing beginning subscript of firers
ISTOP	Variable indexing ending subscript of firers
J K	Force identifier
K	Index for weapon systems lost
KSTART	Variable indexing beginning subscript of weapon systems lost
KSTOP	Variable indexing ending subscript of weapon system lost

NOTE: All common variables are defined in appendix F.

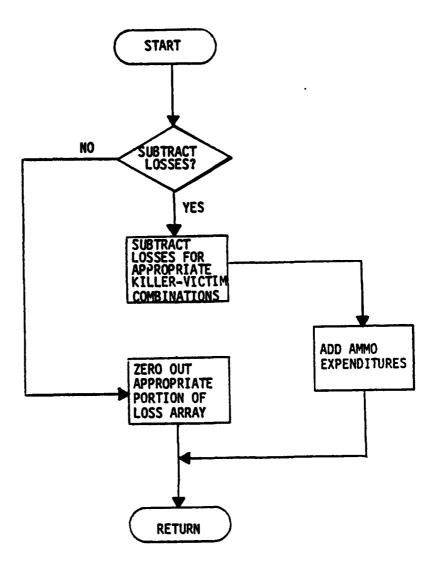


Figure I-10. LOSS flow diagram.

APPENDIX I

SECTION XI. SUBROUTINE NEWHIS

I-XI-1. SUBROUTINE DESCRIPTION. This subroutine creates a CI on the history file without losses to permit restarting at the start of the battle. The gamer is not permitted to make assessments in this CI. Also NEWHIS allows the gamer to assign units to sectors without entering the name of the unit. The names are displayed on the screen by NEWHIS.

I-XI-2. PROGRAM VARIABLES.

<u>Variable</u>	<u>Description</u>
AKEEP	Old parent name
Ī	Do loop variable
IACT	Gamer input variable
II	Do loop variable
INX	Gamer input variable
IYN	Gamer input variable
J	Do loop variable
M	Final position of force file
NEW	Existing record flag
SECT	Sector number

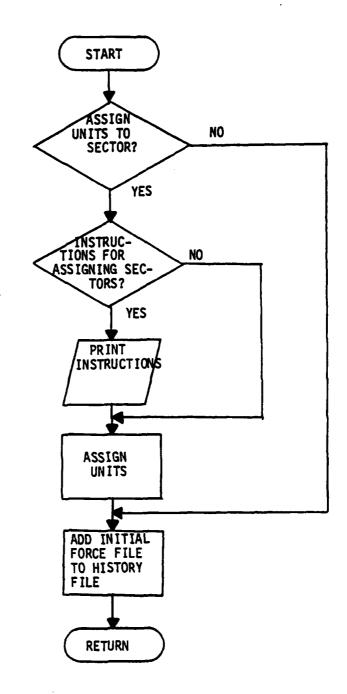


Figure I-11. NEWHIS flow diagram.

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APPENDIX 'I

SECTION XII. SUBROUTINE RESET

I-XII-1. SUBROUTINE DESCRIPTION. This subroutine permits quick investigations of the assessment routines without going through the loading processes. It is used for problems that do not requiring apportioning losses to units. It resets the ELEMNT array directly.

I-XII-2. PROGRAM VAPTABLES.

<u>/ariable</u>	Description
ACIT	CI on ELEMNT file
ASECTT	Sector on ELEMNT file
I	Weapon system index
INX	Gamer response variable
MFORCE	ELEMNT file key
NCARD	ELEMNT file key
PCI	Previous CI
PSECT	Previous sector

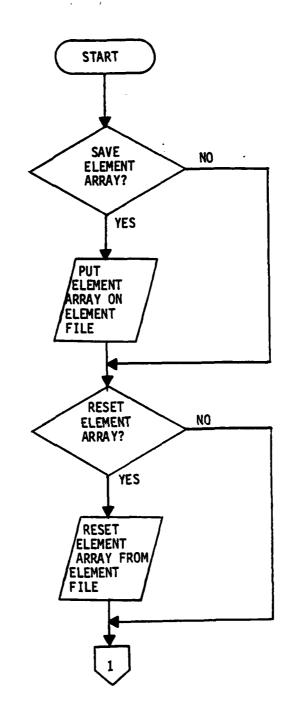
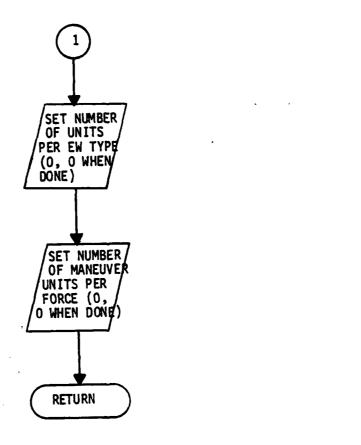


Figure I-12. RESET flow diagram (continued next page).



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Figure I-12. RESET flow diagram (concluded).

APPENDIX I

SECTION XIII. SUBROUTINE RESTART

I-XIII-1. SUBROUTINE DESCRIPTION. This subroutine permits the gamer to load the entire force file for a given CI or at just selected sectors of the CI.

I-XIII-2. PROGRAM VARIABLES.

<u>Variable</u>	<u>Description</u>
HOLD	Old CI name
IALL	Game response variable
II	Do loop index
IYN	Gamer response variable
M	Final position of history file
MM	Final position of force file record
NEW	Force file record flag

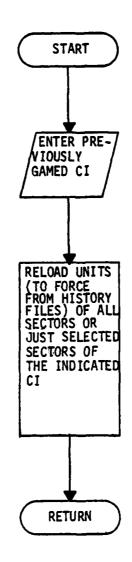


Figure I-13. RESTART flow diagram.

APPENDIX I

SECTION XIV. SUBROUTINE SHOWCI

I-XIV-1. SUBROUTINE DESCRIPTION. This subroutine permits the gamer to obtain a list of the CI's on the history file.

I-XIV-2. PROGRAM VARIABLES.

<u>Variable</u> <u>Description</u>

AKEEP Old CI
IYN Gamer response variable

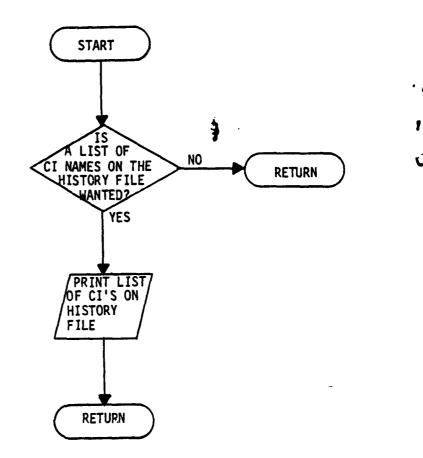


Figure I-14. SHOWCI flow diagram.

APPENDIX J

INTERACTIVE INTERFACE SUBROUTINES

Section I INTERACTIVE INTERFACE OVERVIEW

Section II SUBROUTINE DESCRIPTION AND VARIABLES

1.5

APPENDIX J

SECTION I. INTERACTIVE INTERFACE OVERVIEW

J-I. GENERAL DESCRIPTION. There are ten subroutines in this group. Each subroutine is defined in the next section. Figure J-1 shows the overview of these subroutines interactive relations. The major function is designed for more efficient use of the program. It permits quick investigation assessment routines without going through the loading processes. The other functions are to write on the ANSWER file and REVIEW files. It checks for end of ANSWER file and informs the gamer.

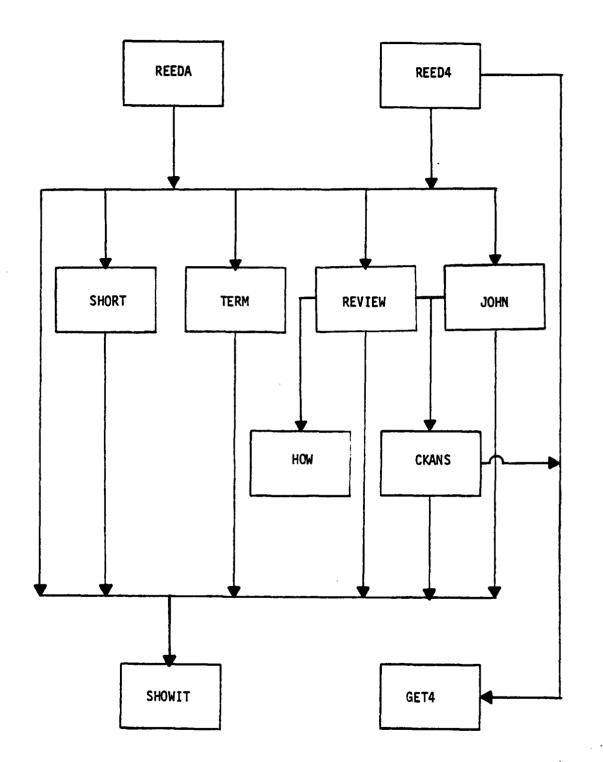


Figure J-1. Interactive interface overview flow diagram.

J-II. SUBROUTINE DESCRIPTION AND VARIABLES.

SUBROUTINE CKANS

1. CKANS.

- a. DESCRIPTION. The subroutine CKANS allows the users to see and modify the answer file produced using either subroutine JOHN (batch option) or subroutine REVIEW (previous answer file option).
 - b. PROGRAM VARIABLES.

Variable

Description

I	Character index
ICHANGE	Change flag
IGETS	Starting character of answer
INSRT	New answer number
INX	Gamer response variable
ISTACK	Lines of answers displayed
J	Answer number
JJ	Line number
J2	Number of last answer on line JJ

2. GET 4.

- a. DESCRIPTION. This subroutine reads up to 4, positive or negative, real or integer values from gamer inputs.
 - b. PROGRAM VARIABLES.

Variable

Description

100	Do loop index
IFACT	Index factor
IMULT	Multi function factor to produce real number
IMULT2	End of string factor
INEL	Negative flag
IOUT	Number of numbers read
LINE	Gamer input line
XNOS	Arrays of input numbers
XNUMB	Element of XNOS

3. HOW.

- a. DESCRIPTION. The subroutine HOW is used to determine, through gamer input, how many answers on the REVIEW file are to be executed.
 - b. PROGRAM VARIABLES.

<u>Variable</u>

Description

I ERROR

Error return variable

- 4. JOHN.
- a. DESCRIPTION. This subroutine processes batch mode input which allows the gamer to enter a series of answers without waiting for the computer response.
 - b. PROGRAM VARIABLES.

\$

<u>Variable</u>

<u>Description</u>

ILIM INX INZ Maximum number of answers Gamer response variable Gamer response check variable

- 5. REEDA.
- a. DESCRIPTION. REEDA provides a central input subroutine whenever the program needs a y or n. It checks for all the option available in the interactive package. Also REEDA has an entry point REEDA to provide for an input, up to 10 characters long, whenever the program needs it.
 - b. PROGRAM VARIABLES.

Variable

Description

IARMOR ICARD JDAY1 XINX

New armor flag Scratch array for gamer input Day or night flag Real array for gamer input.

- 6. REED4.
- a. DESCRIPTION. This subroutine reads up to 4 numerical values and checks for all options in the interactive package. Also REED4 writes on the ANSWER file and REVIEW files. It checks for the end of the ANSWER file and informs the gamer.
 - b. PROGRAM VARIABLES.

Same as REEDA.

7. REVIEW.

a. DESCRIPTION. This subroutine allows the gamers to review questions and answers of the previous run and run the same game with any of the answers changed.

<u>Description</u>
Answer number in review Question number First column of new answer Number of answers to read from input line Answer number in JOHN Batch mode flag Answer array Number of answer in IJON Review mode flag Storage array for current questions.

8. SHORT.

- a. DESCRIPTION. This subroutine produces end of input file messages and connects the technical input file.
 - b. PROGRAM VARIABLES.

Variable

Description

NORM

Variable

Normal return variable

Description

9. SHOWIT.

- a. DESCRIPTION. This subroutine rewinds the intermediate output file (Tape 51) and copies it to the terminal output file (Tape 50) and in the meantime produces the answer file and the QA (question and answer) file.
 - b. PROGRAM VARIABLES.

	
I	Word index
ISHOW	Entry point variable
IZ	Last line
J	Word index
JJ	Reverse word index
SHOWME	Terminal output entry point
SHOW3	Terminal and answer file output entry point

10. TERM.

- a. DESCRIPTION. This subroutine connects or disconnects the outputfile depending on gamer input produces associate messages.
 - b. PROGRAM VARIABLES.

<u>Variable</u>	Description
INX	Gamer response variable
IRUN	Fun index type
NGOT	Normal return variable

APPENDIX K

FUNCTIONS

Section I INDEX 5

Section II NUMB

APPENDIX K

SECTION I. SUBROUTINE INDEX5

K-I-1. SUBROUTINE DESCRIPTION. This subroutine is a subfunction that calculates a one-dimensional subscript from a five-dimensional variable.

K-I-2. PROGRAM VARIABLES.

<u>Variable</u>	Description
INDEX5	Equivalent single subscript
I1	First paramenter subscript
12	Second parameter subscript
13	Third parameter subscript
`I4	Fourth parameter subscript
15	Fifth parameter subscript
Ĺĺ	Length of first parameter array
L2	Length of second parameter array
L3	Length of third parameter array
L4	Length of fourth parameter aray

NOTE: All common variables are defined in appendix F.

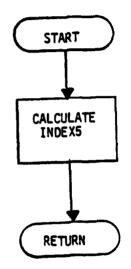


Figure K-1 INDEX5 flow diagram.

APPENDIX K

SECTION II. SUBROUTINE NUMB

K-II-1. SUBROUTINE DESCRIPTION. This subroutine is a subfunction that produces a string number left justified followed by blanks, determined by an integer input.

K-II-2. PROGRAM VARIABLES.

<u>Variable</u>	<u>Description</u>
INUMB	Scratch variable
IT	Do loop index
IX	Input of input number
I1	100th digit
12	10th digit
13	Unit digit
NUMB	Hollerith number output

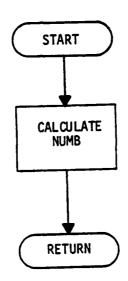


Figure K-2. NUMB flow diagram.

. APPENDIX L

POSTPROCESSOR SUBROUTINES

Section I GENERAL DESCRIPTION
Section II SUBROUTINES DESCRIPTION
Section III COMMON ARRAYS AND VARIABLES
Section IV SAMPLE OUTPUTS FROM THE POSTPROCESSOR

APPENDIX L

POSTPROCESSOR SUBROUTINES

L-I. GENERAL DESCRIPTION. The Jiffy postprocessor consists of 17 subroutines and designed to assist the analysts and gamers working with the Jiffy war game in studies. The history file accessed by the postprocessor consists of records written during the subsequent to running of the Jiffy war games. The postprocessor can then summarize the results data into various levels of reports. A sample of print-outs is shown at the end of this appendix. A overview flow diagram of the postprocessor is shown in figure L-1. The description and program variables for each subroutine are given in the following section.

L-II. SUBROUTINE DESCRIPTION.

- 1. ACCUM. This subroutine assesses the history file to fill the Killer/Victim Array (ALOSS), initial weapon/array (BECON), ending weapon array (ELMT), and the ammunition expenditure array (SHOTS).
- 2. BULLET. BULLET writes out the table of ammunitions usage. It checks to see if type of report request (IOUT) is within bounds and skips to a new page. The other functions are: writes out heading information, report information array SHOTS, which generates the ammunition expenditure table for the postprocessor output file.
- 3. COMMIT. This subroutine sums the weapons remaining in all committed units at the end of a specified CI. A committed unit is one that is currently being gamed or has been gamed during some CI. Uncommitted units are in the sector zero and are subtracted from array BEGIN. The other functions are:
 - o checks range of CI index
 - o loads keys to access directly the index sequential history file for a CI.
 - o reads unit records and accumulates weapons committed in array ELMT.
 - o Subtracts uncommitted weapons from array BEGIN.
- 4. GITNMS. This subroutine retrieves the record containing the CI names and stores it in ARRAY. It indexes of first and last CI of interest in ARRAY are stored in NC11 and NC12 respectively for partial or full game output. The other functions are:
- o sets keys for direct access to index sequential file for "CINAMES" record.

- o puts record accessed into ARRAY.
- o searches for index of CIs of interest CCI(1) and CCI(2) and sets indexes NC11, NC12.
- o insures CCI(1) and CCI(2) are in proper chronological order.
- 5. HEADER. This subroutine writes out proper heading for reports being created and checks to insure that the report parameter (IOUT) is in bounds.
- 6. KILCAT. This subroutine writes losses by source of loss table to the output file, and generates losses by source of loss tables (red and blue) for postprocessor output file using array CATLOS.
- 7. KILVIC. This subroutine writes out the killer/victim matrices for the six types of assessments.
- 8. NEWPAG. This subroutine causes printer to skip to the top of the page and writes a brief header.
- 9. OPTLER. This subroutine enables the generation of optional LER's interactively, and calculates LER. It also prints LER requested with number of weapons only and with firepower times the number of weapons.
- 10. POST. This is the executive subroutine for the Jiffy game output processor. The type output to be generated is set along with the appropriate parameters and then subroutines take over to actually accumulate the desired game data and create the output file.
- 11. RATIOS. RATIOS computes and writes out the headings and standard CI ratio statistics to include:
 - o Loss exchange ratio (LER).
 - o Initial force ration (IFR).
 - o Fractional exchange ratio (FER).
 - o Surviving maneuver force ratio (SMFR).
 - o Surviving maneuver force ratio differential (SMFRD).
- 12. RECVRY. This subroutine computes the damage and recovery table and writes out the damage and recovery tables.
- 13. REPORT. This subroutine calls all subroutines in sequence and forms reports.
- 14. SUMTOT. This subroutine fills the total array by summing the BEGIN, ELMT, and D arrays. Total is then used to generate the ratio statistics.
- 15. SUMUP. This subroutine fills CATLOS, CATSUM, and D from the ALOSS array.

- 16. TRACE. This subroutine generates sequential LERs, SMFRs, SMFRDs for partial or full game. The other functions are:
 - o Sets beginning CI of interest.
 - o Sets ending CI of interest.
 - o Sets a new page.
 - o Calls XOUT to zero arrays.
 - o Calls ACCUM to fill arrays.
 - o Calls RATIOS to form report.
 - o If required, repeats process.
- 17. XOUT. This subroutine zeroes all arrays and variables.
- L-III. COMMON ARRAYS AND VARIABLES.
- 1. Two programming methods are used to transfer data among the post processor subroutines:
 - a. Arrays and variables are passed in the subroutine calling sequences.
 - b. Arrays and variables are stored in COMMON blocks.
- 2. Definition of COMMON Arrays and Variables.
- IOUT Contains interactively entered output option
 - 1. Single sector
 - 2. Partial CI (muliple sector)
 - 3. Full CI
 - 4. Partial game
 - 5. Full game

KIND (2)

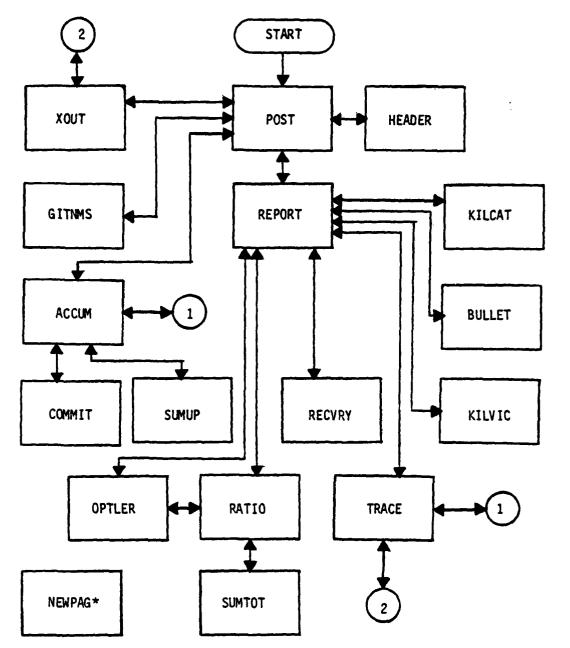
- 1 = literal = "BLUE"
- 2 = literal = "RED"
- TOTAL (3,2,2)(I,J,K) totals for weapons beginning/surviving/killed firepower.
- - K = 1 Beginning numbers of weapons by type
 K = 2 K = 1 times firepower score
 - Begin (65,2) accumulator of the number of weapons alive those committed at the beginning of output period

```
I = 1 - 65 Weapons type
    J = 1
                Blue
    J = 2
                Red
    NCI1
                            Index of CI beginning multiple CI reports in
                            vector ARRAY.
    NCI2
                            Index of CI ending multiple CI reports in
                            vector ARRAY.
    CATLOS(65,11,2(I,J,K) Killer/victim loss arrays filled from ALOSS
                            65 weapons killed by 11 classes by Blue by Red
    I = Weapon types 1-65 (Victim)
    J = Weapon classes 1-11 (Killer)
    K = 1 - Blue
        2 - Red
CATSUM(11,2(I,J) Number of losses by category by Blue by Red
    I = 1--11, category of files
    J = 2, Blue
    J = 2, Red
TYPE (5)
    (1) literal = "ONE SECTOR"
        literal = "PARTIAL CI"
     (3) literal = "FULL CI"
    (4) literal = "PART GAME"
    (5) literal = "FULL GAME"
NCII Index of CI in record CI NAMES of CI stored in CCI(1) MCI2 Index of CI in record CI NAMES of CI stored in CCI(2)
LFIT(35) array used to rewind, open, close, and access the index
sequential force file (not used in postprocessor).
ARRAY(90) Array used to store the names of the CI (for postprocessor only).
(I)
I = 1,2,3 unused
I = 4, ..., 90 contains the name of the I-3 critical incident (CI).
MYBUE(1024) buffer used by GET and GETN utilities to access index
sequential force file (not used in postprocessor).
D(80,2) Accumulator of weapon losses by weapon type
(I,J)
I = 1, \ldots, 80, weapon type
I = 1 Blue
    2 Red
ACI - Name of CI being processed
ASCENE - not used in the postprocessor
ASECT - number of sector being processed
COMMON/THREE/IHIST(35), AH(90), IYBUF(1024)
```

IHIST(35) array used to access index sequential history file

AH(90) working storage for 90 word index for sequential history file IYBUF(1024) Buffer used by GET and BETN to access index sequential history file. IA Index for the attacker force ID Index for the defender force IP Index for the tactical situation table **I ENGAG** Index for the tactical situation 0 **ITERRN** Index for terrain type IVIS Index for visibility IMOUNT Index for attacker mobility MINES Minefield flag CFRR Maneuver firepower ratio S **FSFPR** Fire support firepower ratio FPR Total firepower ratio ATIME Length of the CI in hours Rate of advance calculation flag **IFIRST** IRUN Index for run type Night or day index (day = 1, night = 2)
Fraction of sector (footage) massed by attacker
Suppression factor NORD **FMASS** SF(2) FSSF(2) Fire support suppression factor PACK(2) Work packing variables ELMT(80,2) Array of weapon system in the sector ALOSS (80,80) Weapon loss array (packed) SHOTS (55,2) Round expenditure array CKILL (53,2) Crew kills. SHOT SV (55,2) Temporary storage array for SHOTS

O



* The calls to NEWPAG are not shown. NEWPAG is called by REPORT, RECVRY, KILCAT, BULLET, KILVIC, RATIOS, OPTLER, and TRACE.

Figure L-1. Postprocessor overview flow diagram.

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APPENDIX L

SECTION IV. SAMPLE OUTPUTS FROM THE POSTPROCESSOR

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	ALCE ADD C	1 ZF	1 SECTOR	10011.
*****	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	*****	######################################	7748 774 88 8 88 872 6 7 87 881 1
BARENT-00	44	UNI TOP		<u> </u>
PAPENT-GO EFF - 40.	**	EFF - 90.		<u> </u>
EL Lost	SERVENTE	- EC C037	REFAIN	<u> </u>
1 33-7	184.3 **	1 33.7	416.3	1
- 3 - 2 <u>1 . 6</u>	361.9 00	3 36.1	3(1.9	}
- 1.2	1200.0	-:-	14:3	<u> </u>
6 0.0	30.0 **		44.0	<u>.</u> 1
9 0.0	64.0 **	10 0.0	36.0	!
11	- 267:7-66	12 0:3	207.7 26.0	}
<u> </u>	76.8 88	20 5.4		<u> </u>
28 5. 0 32 5. 6	3.6 46	32 9.6 36 4.9	7.5_	I I
36 4.5	7,5 40	46 2.4	10.6	
46 - 2.4 47 - 1.8		$-\frac{67}{50}$ $-\frac{1.0}{9.3}$	- 3[:} -	
50 9.3	31.7 **	51 6.6	22.4	i
31 6.6 54 6.0	27.0 00	54 8.8	34.6	1
62 2.6	39.0 44	63 .6	22.4	!
63	22.3 ···	-6 }-261:8	-u#:l-	i
	••			<u>i</u>
*********	••••••••••••••••••••••••••••••••••••••	3 6 7 6 8 3 6 6 6 6 6 7	5 58 +3 +4 + 5 +	\$6 868
PAPENT-30	- 66	UNITOPE		i
EFF= 84.				
		£77. 40.		[
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APPENDIX M JIFFY III PROGRAM LISTINGS

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APPENDIX M

JIFFY III PROGRAM LISTINGS

- M-I. GENERAL DESCRIPTION.
- M-I-1. This appendix contains the FORTRAN Program Source Code for the entire Jiffy III program. This method of presentation should be more efficient and useful than fragmenting the code into subroutines for inclusion in the various appendixes.
- M-I-2. Several sensitivity tests have been run, resulting in modifications to model logic. In addition, the Jiffy III program was subjected to extensive review and debugging in December 1979. No significant model changes were required as a result of the sensitivity analysis and review; however, a few input data changes were made, which are incorporated in volume III.
- M-I-3. The program listings in this appendix are from a printout dated 8 February 1980. The Jiffy model, however, is the subject of continued modification and improvement for future studies.

M-II. Index for Jiffy III Programs and Subroutines (Feb 80 version).

	Line S	equence Numbe	rs
Name	From	To	Page
PROGRAM BUILD (SRC Generation Program)	000001	000224	M-4
PROGRAM UNIT	000001	000294	M-9
PROGRAM PARENT	000001	000296.	M-16
PROGRAM MATRIX (Force Generation Program)	000100	004690	M-23
PROGRAM SUPER	110	3140	M-33
SUBROUTINE SHOWIT	3390	3920	M-40
" REEDA, REEDB	3940	4520	M-42
	4540	4950	M-44
" REED4 " GET4	4970	5450	M-45
	5470	5960	M-46
JOHN	5980	6560	M-47
CNANS	6580	7490	M-49
L/ T 4 T PM	7510	7640	M-51
ION	7650	7800	M-52
" SHUKT	7820	8090	M-53
I ENP	8110	8240	M-54
FUNCTION NUMB	8260	8580	M-55
" CKSTOR	8600	9250	M-56
" ENDCI			M-58
RESTART	9270	10530	M-61
" SHOWCI	10550	10890	M-62
" INIT	10910	11350	
FUNCTION INDEX5	11370	11460	M-63
SUBROUTINE LOSS	11480	11880	M-64
" DISPLAY	11900	13040	M-65
" RESET	13060	13800	M-68
" SUPRES	13820	14250	M-70
" ROFA	14270	18840	M-71
" EW	18860	20180	M-81
" TANK	20200	27680	M-84
" INFANT	27700	29480	M-100
" MINE	29500	31920	M-104
" FASCAM	31940	33160	M-110
" CANNON	33180	42070	M-113
" CLGP	42090	43670	M-132
" FORCE	43690	49760	M-136
" COMBINE	49780	50330	M-149
" CKACI	50350	51820	M-151
" NEWHIS	51840	52890	M-155
" CLEAR	52910	53390	M-158
" APPORT	53410	59110	M-159
" BUILD	59130	60430	M-171
" AHAD	60450	67530	M-174
" POST	71960	73140	M-189

		Line	Sequence Number	ers
Name		<u>From</u>	<u>To</u>	Page
SUBROUTINE	XOUT	73160	73680	M-192
10	GITNMS	73700	74530	M-194
11	ACCUM	74550	77240	M-196
11	COMMIT	77260	77850	M-202
н	SUMTOT	77870	78380.	M-204
40	SUMUP .	78400	78800	M-206
H	HEADER	78820	79280	M-207
H	REPORT	79300	79690	M-208
11	RECVRY	80570	81810	M-209
11	KILCAT	81830	82270	M-212
u	BULLET	82740	83080	M-214
II .	KILVIC	83100	84420	M-215
, #	OPTLER	84440	85270	M-218
н	RATIOS	85290	86990	M-220
н	NEWPAG	87010	87310	M-224
•	TRACE	87330	87820	M-225

PROGRAM BUILD (INPUT, QUTPUT, TAPES, TAPES=INFUT)	006031
COMMON/ONE/IFIT(35).IFLG(1)	000002
DINENSION ARRAY (46), ACHG (44), AERR (22), MYBUF (1024)	000003
19 ICK+0	098084
20 CALL FILEIS(IFIT, 3LLFN, 5LTAPE9, 2LKA, ARRAY, 2LPH, 1LR,	000005
.JLFWI.JLYES.JLBFS.1024.JLFWB.HYBUF)	000006
CALL CONNEC(5LTAPE6)	900007
IF(ICK.EQ.1HO) GO TO 9	000005
IFIECK.EQ.1HL1 GO TO 9	000009
ARRAY(1)="SRC"	200010
101 FORMAT (1A10)	000011
AHOLD=ARRAY(1)	000012
9 ARRAY(1) = AHOLD	000013
IF(ICK.EQ.1HQ) GO TO 809	000014
IF (ICK. EQ. 1HL) GO TO 14	300015
18 00 L1 I=2,46	000016
ARRAY(I) = 0	000017
11 CONTINUE	900016
00 t2 I = 1,66	000019
ACHG (I) = 0	000020
12 CONTINUE 00 13 I = 1.22	000021
AERR(I) = 0	000022
13 CONFINUE	000023
	0 00 024
ABOVE DO LOOPS ZERO OLT WORK ARRAYS	000025
MOUTE OF SOUTS LEAD OUT WORK ARRAITS	000027
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AS PAGMATIAN MEMPPA ASTAM PROCE N CAR A PARA . M.	000029
11 FORMAT (1x, "FOLLOWING ACTIONS CAN BE EXECUTED", /,	900033
11X. R= READ (REVIEW) A RECORD	000031
ZIX, A ADD A NEW SRC ",/,	300032
31X, C= CHANGE/ADD MPM ID'S/GTY'S WITHIN AN EXISTING SRC". /.	000033
61X. 0 DELETE AN SRC AND/OR MPN SYS IC WITHIN THE SRC "./.	020034
51x, "L* LIST ALL SRC'S ON FILE"./,	022035
61X, "E" END THE PROGRAM")	383836
READ(6,103) ICK	000037
103 FORMAT (1A1)	000038
IF(ICK.EQ.1HX) FRINT 111	300039
IF(ICK.EQ.1HK) GO TO 19	300040
IF (ICK.EQ.1HR) GO TO SOO	000041
IF(ICK.EQ.1HA) GO TO 600	54000
IF (ICK.Eq.1HC) GQ TQ 700	3888634
IF(ICK.EQ.1HO) GO TO 888	320044
IF (ECK.EQ.1HL) GO TO 1800	020045
IF(ICK.EQ.IHE) GO TO 980	000046
PRINT 104	300067
194 FORMAT (1x, TACTION COCE ERROR-TRY AGAIN")	000043
GO FO 14	000349

500 PRINT 501 501 FORMAT (1X. TREAD-ENTER SRC (ENG TO EXIT)-000051 REA) (6.502) ASRC CALL OPENH(IFIT.3LI-0) 000053 502 FORMAT (LA10) 000054 IF (A SRC.EQ. JHENO) GO TO LE 000055 ARRAY(2) = ASRC ARRAY(3) = 99999 000056 000157 CALL GET (IFIT ARRAY ARRAY (1))
IF (ARRAY (3) .EQ. 99999) GO TO 558 000058 000059 PRINT 503 , ARRAY(2) 533 FORMAT(1x, "SRC=", A10, 5x, " IO GTY") 000000 00 585 [=3,45,2 IF (ARRAY(I).EQ. 0) GO TO 585 38888 IDO=ARRAY(I) PRINT 504. (IDO-ARRAY(I+1)) 200064 504 FORMAT (20X. 13.1X.F5.0) 505 CONTINUE 000066 CALL CLOSEM(IFIT) 000058 000069 550 PRINT 551 , ASRC 551 FORMAT(1X, "SRC ", A10," NOT ON FILE") CALL CLOSEM(1FIT) 30 TO 500 000070 000071 000072 900073 GALL CLOSEN (IFIT) 989974 900075 PRINT 601
FORMAT(1X, "AOD-ENTER NEW SAG(END TO EXIT) -- ") 888876 601 000077 CALL OPENM(IFIT.3LI-0) READ(6,502) ASRC 000378 IF (ASRC. EQ. 3HEND) GO TO 16 000080 ARRAY(2)=ASRC 000081 ARRAY(3) = 99999 CALL GET (IFIT, ARRAY, ARRAY(1)) 888888 000083 IF (ARRAY (3) . NE. 99991) GO TO 618
FORMAT (1x, "ENTER TOTAL NO. OF WPN SYS IDS ",/) 000084 7000 300385 000086 PRINT 7001 000087 DEL FORMATIEX, "ENTER MPN ID.QTY-- G.O IF DONE ")
BB7 REAJ(6.") AM.AJ 060066 308889 IF (AM.EQ. 8) GO TO 886 000090 S+HH=HH 000091 ARRAY (NH) = AH 20000 000093 ARRAY(NN+1)=AJ PRINT-, "NEXT-" 46 0000 GO TO 887 000095 888 CONTINUE 000095 CALL PUT (IFIT . ARRAY. 460 . A FRAY(1)) 100097

M=5

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HOTFETCHGIFIT.3LIRS)

IF (M.EDJ4468) GO TO 618

693 FORMAT(1X, "SRG".A18," ALREADY ON FILE")

GO TO 612

618 PRINT 603, ASRC 000102 612 DO 511 I=2.46 611 CONFINUE CALL CLOSEM(IFIT) 000107 788 PRINT 781 781 FORMAT(1X, "CHANGE-ENTER SRC(END TO EXIT) -- ") READ(6,702) ASRC CALL OPENH(IFIT,3LI-0) 702 FORMAT (A10) IF (ASRC. EQ. 3HEND) GO TO 16 ARRAY(3) = 99999 ARRAY(2) = ASRC GAL_ GET(IFIT.ARRAY.ARRAY(1))
IF(ARRAY(3).NE. 99999) GO TO 758 799 PRINT 703 , ARRAY (2) 783 FORMAT(1X, "SRC ", A18, " NOT ON FILE") 783 FORMAT(1X, "SRC ".A18," NOT GN FILE")
GALL CLOSEM(IFIT)
GO TO 788

758 PRINT 7808

REA)(6,*) IENO
IENG=IENG=2
PRINT 7802
PRINT 7802

READ(6,*) (ACHG(I), I=1, IENO)

**CAD(6,*) (ACHG(I), I=1, IENO) 770 CONFINUE KEKP 1 AERE (K) = ACHG(J) 00 775 L=3.45.2 1F(ARRAY(L).NE.8) GO TO 775 ARRAY(L)=AGHG(J) ARRAY(L+1)=AGHG(J+1) GO TO 786 775 CONTINUE GO TO 788 776 ARRAY(I+1) = ACHG(J+1) 788 CONTINUE 798 CALL REPLC(IFIT.ARRAY. 460.4 MAY(1))

M-6

IF (K.EQ.4) GO TO 791

PRINT 706, ASRC, (AERR(I) , I=1,K)

706 FORMAT(1X, "FOLLOWING MPM IDS MOT FOUND FOR SRC",A10,/,
11X, "THEREFORE MERE ADDED TO THE SRC REGORO",/,22(F5.8)) CALL CLOSEM(IFIT) 308 PRINT 301 801 FORMAT(1X, "DELETE-ENTER SRC(END TO EXIT) -- ") READ(6.1265) ASRC
CALL OPENH(IFIT,3LI-O)
FORMAT(A18)
IF(ASRC,EO.3HEND) GO TO 16 PRINT 7003
7003 FORMAT(" ENTER TOTAL NO. OF HPM SYSTEMS TO BE DELETED-",
7"ENTER 8 IF ALL ")
READ(6.*) IENO ARRAY(2) =ASRC ARRAY(3) =99999 CALL GET (IFIT.ARRAY, ARRAY(1))
IF (ARRAY(3).EQ. 99999) GO TO 840 IF (IEND.EQ. () GO TO 896 PRINTO. TENTER WPN SYS 10'S TO BE DELETED 000167 REAJ (6,*) (ACHG(I), I=1, IENO)

IF (ARRAY(3), NE. 9999) GO TO 858
848 PRINT*, "SRC ", ARRAY(2), "NO CALL CLOSEY (IFIT) NOT ON FILE GO TO 800 850 IF (ACHG(1).EQ. 0) GO TO 890 000173 00 880 J=1. IEND IF (A CHG(J) .EQ. 0) GO TO 888 00 868 1=3,45,2 IF (ARRAY(I).EQ.8) GO TO 868 IF(ARRAY(I).EQ.ACHG(J)) GO TO 866 CONTINUE K=KP1 AERR(K) = ACHG(J) G0 F0 880 866 ARRAY(I) = 0 ARRAY(I+1) = 0 880 CONFINUE

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898	CALL OLIE(IFIT.ARRAY(1))	898194
	CALL CLOSEN(IFIT)	88819
	GO TO 880	000190
1000	CALL OPENM(IFIT.3LI-0)	006197
1100	CONFINUE	000190
	CALL GETH(IFIT, ARRAY, ARRAY(1))	004199
	M=IFETCH(IFIT, 2LFP)	00000
	IF(4.EQ.1008) GO TO 15	033201
	IF (AHOLD.EQ.ARRAY(1)) GO TO 1208	00020
	60 FO 1108	000203
15	CALL CLOSEN(I FIT)	00020
1208	GO TO 20 PRINT 503,ARRAY(2)	000209
1600	00 1205 I=3.45.2	002500
	IF(4RRAY(I).EQ.0) GO TO 1285	00020
	1000 ARRAY (1)	008209
	PRINT 504, (IDG, AR FAY(I+1))	00021
1205	CONFINUE	99821
	00 1206 I=2,46	000212
	ARRAY(1) =0	08021
1206	CONFINUE	300214
	GO FO 1188	000215
986	PRINT 9000	00021
9000	FORMAT (1 X, "ANY MORE FORCE STRUCTURES TO BE UPDATED? ",/,)	000217
	READ (6.9001) NY	00021
9601	FORTAT (A1)	000219
	IF (NY.EQ. 1HY) GO TO 19	00855
	PRINT 901	000221
901	FORMATILX. "ALL DOME JOB HAS ENDED"1	999222
	\$109	10055
	<u>ENO</u>	000224
		
		
		
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PROGRAM UNIT (IMPUT. OUTPUT. TAPE18. TAPE9. TAPE6=IMPUT)	<u>.</u>	00000
COMMON/ONE/IFIT (35) + NFIT (35)	7	28020
DIMENSION BRRAY(25), ARRAY(46), SCHG(22),		08600
1AERR (22) . BERR (22) . BBERR (22) . NYBUF (1824) . NYBUF (1824)		00600
19 ICK=6		00000
28 CAL. FILEIS (MFIT. 3LLFM. 6LTAPE10.2LX A. BRRAY (1), 2LPM.1LR.		00000
.3LFWI,3LYES,3LBFS,1024,3LFWB,HYEUF)		83800
CALL FILEIS(IFIT.3LLFN.5LTAPE9.2LKA.ARRAY(1),2LPH.1LR.		00000
.3LF4I,3LYES,3LBFS.1024,3LFMB.NYBUF)		00000
IF([CK.EQ.1HQ) GO TO 9		30001
IF(ICK.EQ.1HL) GO TO 9 BRREY(1) = "SRC"		06061
181 FORNAT (A18)		00001
ARRAY(1) = BRRAY(1)		00001
BHOLD=BRRAY(1)		00001
9 ARREY(1)=BRRAY(1)=BHOLD		00001
IF([CK.EQ.1H0) GO TO 880		_ 00001
IF(ICK.EQ.1HL) GO TO 15		00001
111 FORGATILX. "FOLLOWING ACTIONS CAN BE EXECUTED"./,		00881
11X.ºR=READ(REVIEW) A RECORD		00002
21x. A=ADO A NEW UNITW./.		00002
31x, "C=ADD SRC.S WITHIN AN EXISTING UNIT",/,		30002
41x, "O=DELETE A UNIT ANO/OR SRC.S WITHIN THE UNIT"./		99992
51x, L=LIST ALL UNITS ON FILE",/,		66402
61X. E = END THE PROGRAM"		00002
18 00 11 I=2,24		00002
BRRA Y (1) = 0		00002
IF(1.67.22) GO TO 11		99892
BCHG (I) × G		00002
AERR(I)=0 		00003
41 punting	——	00003
		00003
ABOVE OO LOOP ZERO OUT WORK ARRAYS		00003
14 PRINT 102		00003
102 FORMAT(1X. "ENTER ACTION TYPE(X FOR LIST) ")		00003
READ (6-103) ICK		20003
103 FORMAT(AL)		00003
IF(ICK.EQ.1HX) FRINT 111		00003
IF([CK.EQ.1HX) GO TO 14		00004
IF(ICK.EQ.LHR) GO TO 500		30004
IF(ECK.EQ.1HA) GO TO 688		00004
IF (ICK.EQ.INC) GQ TQ 788		00004
IF (ECK.EQ.110) GO TO 800		00004
IF (IGK.EQ.1HL) GO TO 1080		00004
IFICK.EQ.1ME) GO TO 980		0000
PRINT 104		00004
184 FORMAT (1X, "ACTION CODE ERROR-TRY AGAIN ")		89884
GO_FO 14		0000

C	•	20005
C C	**THIS PROTION OF PROGRAM IS TO READ (REVIEW) UNITS**	00005
C		00005
	PRINT 501	00005
501	FORMAT (1X, TREAD-ENTER UNIT ID (END TO EXIT) ")	91035
	READ (6.502) BUNIT	00005
	CALL OPENN (NFIT, 3LI-O)	88005
50 Z	FORMAT (A10)	43005
	IF(BUNIT.EQ.3MEND) GQ TO 16	00005
	BRRAY(2) =BUNIT	00005
	BRRAY(3)=99999	30006
	CALL GET (NFIT, BRRAY, BRRAY (1))	00006
	IF (BRRAY (3), EQ. 99999) GO TO 550	00036
	PRINT 503, BRRAY(2)	00006
503	FORMAT (1X, "UNIT=", A10.5X. "SRC")	998964
	00 505 I=3,26	00006
	IF (3RRAY(I).EQ.0) GO TO 505	20006
	PRINT 504, (BRRAY(I))	00006
	FORMAT (17X, A10)	00006
505	CONTINUE	03006
	CALL CLOSEMENFITI	00007
	GO TO 500	00007
	PRINT 551, BUNIT	00007
551	FORMAT (1x, "UNIT", A10, "NOT ON FILE")	00007
	CALL CLOSEN (LFIT)	00087
_	PRINT1111, BRRAY(2)	880079
<u>c</u>	**THIS PORTION OF PROGRAM IS TO ADD A NEW UNIT**	30007
<u> </u>	THE PURITURE OF PROGRAM IS TO AUGU A NEW CHILL	00007
	PRINT 641	00007
	FORMATILY, "ADD-ENTER NEW UNIT IDIEND TO EXIT) ")	00008
901	READ (6, 502) BUNIT	00008
	CALL OPENM(NFIT.3LI-0)	00008
	IF (SUNIT.EQ.3HEND) GO TO 16	83008
	BRRAY(2)=BUNIT	00008
	8RRAY(3) =99999	00008
	SALL GET (NFIT, BRRAY, BRRAY (1))	00008
	IF (BRRAY (3) . NE. 99999) GO TO 618	80000
6000	FORMATILX, "ENTER TOTAL NG. OF SRC.S", /1	00003
	[*6	00008
	CALL OPENM(IFIT, 3LI-0)	00009
	PRINT 506	00069
586	FORNAT (1X, "ENTER SECIO IF DONE) -")	00009
6501	[=[+]	00009
	READ (6,502) BRRAY (1+2)	00009
	IF (3RRAY (1+2).ME."0") GO TO 6500	00009
	BRRAY(1+2)=0	00009
	CALL CLOSEN(IFIT)	00009

	SO TO 616	08009
5508	CONFINUE	00009
	ARRAY(2) = BRRAY(<u>1+2</u>)	00010
	ARRA Y (3) = 99999	00010
	CAL. GET (IFIT, ARRAY, ARRAY(1))	00010
	IF (4 RRAY (3).NE. 99999) GO TO 602	00816
	BFRC=ARRAY(2)	00010
	60 10 604	08010
602	CONFINUE	0001
	PRINT*,"NEXT-"	00010
	GO FO 6501	90010
919	CAL. PUT(NFIT, BRRAY, 248, BRRAY(1))	80010
	MO=[FETCH(MFIT,3LIRS) IF(40.EQ.4468) GO TO 618	00011
607	FORMAT(1x, "UNIT ".A18." ALREADY ON FILE")	00011
543	GO TO 612	00011
418	PRINT 663.BUNIT	00011
94.9	GO TO 612	00011
606	PRINT 6002, BFRC	00011
1002	FORMAT (1x, "SRC ", A18, " NOT ON FILE AND HOT ADDED ")	3001
	I=I=1	06011
	60 10 602	00011
612	00 511 I=3,24	01012
	BRRAY(I) = 0	00012
611	CONF INUE	00012
	CALL CLOSEN(NFIT)	00312
	60 10 600	06012
16	CALL CLOSEN(NFIT)	06012
	60 10 10	00012
C		00012
	+THIS PORTION OF PROGRAM ACOS SRCTS TO AN EXISTING UNIT++	0001
C		00012
788	00 702 [=1,22	08913
	BERR(I)=0	0001
	88ERR(I)=0	30013
	AERR (I)=0	0001
	8CH6 (I)=8	00013
702	CONFINUE	00013
904	PRINT 701	0001
701	FORMAT (1x, "CHANGE-ENTER UNIT ID (END TO EXIT) ")	00013
	READ (6,502) BUNIT CALL OPENM (MFIT.SLI-O)	0001
		00013
	IF(3UMIT.EQ.3MENO) GO TO 16 ARRAY(3)=99999	00014
	BRRAY(2)=BUNIT	00014
	CAL_ GET(NFIT,BRRAY,BRRAY(1))	0001
	IF(BRRAY(3).NE.99999) GO TO 750	3001
794	PRINT 703.BRRAY(2)	2001
, 33	LUTAL LAABOUMELE!	3067

		·	
_	703	FORMAT(1x, "UNIT ".A18." HOT ON FILE")	000146
		CALL CLOSEN(NFIT)	000147
		50 FO 700	000148
	750	PRINT 6000	000149
		READ (6.*) HEND	00 01 50
		00 768 I=1, NENO	888151
		PRINTO, "ENTER SRC NO. ".I,""	006152
		READ (6,502) BCHG(I)	000153
	768	CONFINUE	000154
		N#Q	000155
_		M= (000156
Č	-	14801 STOR STOR THOSE SHOWS TO BE ARREST.	000157
<u>ç</u>	<u>-</u>	PARRAY BERR KEEPS THOSE SRC"S TO BE ADDED PARRAY AERR KEEPS THOSE SRC"S ALFEADY EXISTING IN THIS UNIT	000158
C		PARRAY BBERR KEEPS THE SRC"S IN BERR WHICH DO NOT EXIST **	000159
ᇰ	:	MINNET OBERK KEEPS INE SAL S IN BERK WILLIA DO NOT EXIST	300160
٠		DO 788 J=1,NENO	080161
		IF (3CHG(J).EQ.D) GO TO 780	000162 000163
		DO 778 I=3,24	000164
		IF (BRRAY (I).EQ.BCHG(J)) GO TO 776	030165
	770	CONT INUE	200166
_		N=N+ 1	999167
		BERT (N)=BCHG(J)	000168
_		GO TO 780	910169
	776	Mane 1	000170
		AERR (H)=BCHG(J)	000171
	788	CONTINUE	888172
		NN=\$	000173
		CALL OPENM (IFIT, 3LI-0)	000174
		DO 785 I=1.N	000175
		ARRAY(2) = BERR(I)	000176
		ARR\$ Y(3) =99999	090177
		CAL. GET (IFIT.A MAY.ARRAY(1))	000178
		IF(ARRAY(3).NE.99999) GO TO 715	000179
		HN=4H+1	000180
		88ERR(NN)=8ERR(I)	000181
_		60 TO 705	000152
	715	00 785 JK=3,24	666183
		IF (BRRAY (JK).NE. g) GO TO 785	000184
		BRRAY(JK)=BERR(I)	000185
	===	60 FO 785	100136
		CONTINUE	000187
	795	CONFINUE	000138
		CALL CLOSEM(IFIT)	000189
	744	GALL REPLG(NFIT.BRRAY.248.8RRAY(1))	000190
	747	IF (4.Eq. 8) GO TO 789	000191
	70.0	PRINT 708, BUNIT FORMAT (LX. "FOLLOWING SRG.S HERE ALREADY PRESENT IN".	000192
	740	LAMBERTY LAFFRATION SECTION WELL WELFT LESSEN [M. 4	000193

1" UNIT ",A10) 00 7100 I=1.M PRINT 605.AERR(I) 000197 FORMAT (12X.A10) 7100 CONTINUE 709 IF (NN.EQ. 4) GO TO 7201 786 PRINT 7888
7888 FORMAT(1x, FOLLOWING SRC.S NOT FOUND ON TOE-FILE", /, 21X. THEREFORE WERE NOT ADDED ")
00 7208 I=1.NN PRINT 605,86ERR(I)
7200 CONFINUE
7201 CALL CLOSEN(NFIT)
GO TO 700 <u>000208</u> **THIS PORTION OF THE PROGRAM DELETES AN ENTIRE UNIT GR ** -- DELETES SRC"S WITHIN A UNIT --888 PRINT 881 881 FORMAT(1X, "DELETE-ENTER UNIT 10(END TO EXIT) -- ") READ(6,8000) BUNIT CALL OPENH(NFIT,3LI-O) SEES FORMAT (A10) IF (BUNIT. EQ. 3HEND) GO TO 10 PRINT 8881
8881 FORMATI1X, "ENTER TOTAL NO. OF SRC.S TO BE DELETED-",
3"ENTER 8 TO GELETE THE ENTIRE UNIT ")
READ (6,") NENO BRRAY (2) = BUNTT BRRAY(3) =99999 GREAT(3)=99999

CALL GET(NFIT, SRRAY, 8 RRAY(1))

IF(3 RRAY(3).EQ.99999) GO TO 840

IF(MEMO.EQ.0) GO TO 890

DO 8508 I=1.NENO

PRINT*,"ENTER SRC NO. ",I," --
READ(6,502) 8CHG(I) SOR CONTINUE GO FO 850 PRINTILLI, BUNIT FORMAT(1X, A10, " NOT ON FILE") 100232 GALL GLOSEM(NFIT)
GO TO 800
850 IF(3GHG(1).EQ.Q) GO TO 890 00 888 J=1.NENO IF(3CHG(J).EQ.0) GO TO 880 00 360 [=3,24 IF(3RRAY(I).EQ.0) GO TO 864

M-13

10 M.

IF (BRRAY (I) . EQ. BCHG(JI) GO TO 866 868 CONTINUE **AERR HERE KEEPS TRACK OF THE SRC"S NOT FOUND FOR THE UNIT" AERR (K)=BCHG(J)
GO TO 889
866 BRRAY(I)=0
888 CONTINUE CALL REPLC(MFIT, BRRAY, 248, BRRAY(1))

IF(K.EG. 0) GO TO 8101

PRINT 8002, BUNIT

8002 FORNAT(1x, "THE FOLLOWING SRC'S MERE NOT FOUND FOR UNIT ", \$419,1X)
00 8180 I=1.K
PRINT 605,AERR(I)
8188 GONFINUE 8101 CALL CLOSEM(NFIT) GO TO 800 898 CALL OLTE(NFIT, BRRAY(1))
CALL CLOSEN(NFIT) 50 TO 808 **THIS PORTION OF THE PROGRAM LISTS ALL UNITS PRESENTLY ON FILE** 1108 CONTINUE OPENM (NFIT, 3LI-O) GALL GETH (NFIT, BRRAY, BRRAY(1))
H=IFETCH (NFIT, 2LFP) IF(Y.EQ. 1808) GO TO 15 IF(3HQLD.EQ.8RRAY(1)) GO TO 1200 50 FO 1160 15 CALL CLOSEM(NFIT) 60 FO 20 1208 PRINT 503,8RRAY(2) 000277 00 1205 I=3.24 IF(3RRAY(I).EQ.0) GO TO 1205 PRINT 504. BRRAY(I) 1205 CONTINUE 00 1206 I=2,24 8RRAY(I)=0 1286 CONFINUE

GO FO 1188

988 PRINT 9889

988 FORMAT (1x. "ANY MORE FORCE STRUCTURES TO BE UPDATED? "./) REAJ (6.9001) NY 9001 FORMAT (A1)

M-14

PRINT 901
901 FORMAT(1X, - ALL DONE JO
STOP
ENO 000290 000291 000292 000293 000294 M-15

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PROGRAM PARENT (INPUT. DUTPUT. TAPELL. TAPELS, TAPES=INPUT)	000001
COMMON/ONE/NFIT (35), LFIT (35)	000002
DIMENSION CRRAY(28),8 MAY(24), CCH6(18),	888883
1CERT (18) . SERR (18) . SSERR (18) . NYSUF (1924) . NYSUF (1924)	000034
19IGK=6	000005
20 CALL FILEIS (LFIT, SLLFN, 6LTAPELL, 2LKA, CRRAY(1), 2LPN, 1LR.	889886
	400007
GALL FILEIS(NFIT, JLLFN.6LTAPE10.2LKA.BRRAY(1),2LPH.1LR.	000008
.3LFWI,3LYES,3L8FS,1024,3LFW8,NY8UF)	080009
IF(ICK.EQ.1HO) GO TO 9	000010
IF(ICK-EQ.1ML) GO TO 9	000011
CRR4 Y (1) = "SRC"	000012
101 FORMAT(A18)	008013
BRRAY(1) = CRRAY(1)	000014
CHOLD=CRRAY(1)	000015
9 CRRAY(1)=BRRAY(1)=CHOLD	000016
IF(ECK.EG.1HD) GO TO 500	000017
IF(ICK.EQ.1HL) GO TO 14	000018
111 FORMAT (1X, "FOLLOWING ACTIONS CAN BE EXECUTED"./.	000019
11X. "R=READ (REVIEW) A RECORD",/,	000020
21X, "A=AOO A NEW PARENT"./.	000021
31X, C#ADD UNIT, S HITHIN AN EXISTING PARENT, /,	000022
61x, 00=0ELETE A PARENT AND/OR UNIT.S WITHIN THE PARENT",/, 51x-"L=LIST ALL PARENTS ON FILE"./.	000023
61X, "E=ENO THE PROGRAM")	250000
10 00 11 T=2,20	000025
GRAY(I)=0	999926 988827
IF ([.GT.18) GO TO 11	200028
CCN6(1)=0	40020
CERR (1) = 0	000030
11 CONTINUE	200031
C	000032
	000033
C ABOVE DO LOOP ZERO OUT WORK ARRAYS	000034
14 PRINT 102	000035
102 FORMAT(1x, "ENTER ACTION TYPE(X FOR LIST) ")	000036
REA) (6,103) ICK	000037
103 FORMATIA1)	000038
IF(ICK.EQ.1HX) FRINT 111	000039
IF(ICK.EQ.1HX) GO TO 14	000040
IFIECK.EQ.1HR) GO TO 588	000041
IF (IGK.EQ.1HA) GO TO 600	540000
IF (IGK.EQ.1MC) GO TO 708	101143
IF(ICK.EQ.1HO) GO TO 880	000044
IF (ICK.EQ.1HL) GO TO 1800	000045
IF(ECK.EQ.1HE) GO TO 980	999946
PRINT 106	000047
184 FORMAT (1x, "ACTION CODE ERROR-TRY AGAIN ")	000048
60 10 16	000049

THIS PROTION OF PROGRAM IS TO READ (REVIEW) PARENTS 580 PRINT 501 581 FORMAT(1x, "READ-ENTER PARENT ID(END TO EXIT) -- ") READ (6.502) CFRC 502 FORMATIALD) GALL OPENM(LFIT, 3LI-0) IF()FRG.EQ.3MEMO) GO TO 16 GRRAY(2)=GFRG CRRAY(3)=99999 CAL. GET(LFIT, GRRAY, GRRAY(1))

IF(GRRAY(3).E0.99999) GO TO 550

PRINT 503, GRRAY(2)

503 FORMAT(1X, "PARENT=".A10,5%, "UNIT") DG 505 I=3,20 IF (3RRAY(I).EQ.0) GO TO 505 PRINT 50% (GRRAY(I)) 50% FORMAT(17%,A10) 585 CONFINUE CALL GLOSEM(LFIT)
GO TO 500
550 PRINT 551.GFRC
551 FORMAT(1x, "PARENT", A10, "NOT ON FILE") CALL CLOSEH(LFIT) CALL CLO CLOSEN (LFIT) **T4IS PORTION OF PROGRAM IS TO ADD A NEW PARENT ** 600 PRINT 601 681 FORMAT(1x. "ADD-ENTER NEW PARENT ID (END TO EXIT) -- ") REAJ (6,502) GFRG GALL OPENM(LFIT.3LI-0)
IF(GFRG.EQ.3MENO) GO TO 16 CRRAY(2) =CFRC CRRAY(3) =99999 CALL GET (LFIT, CRRAY, CRRAY (1))
1F (3RRAY (3), NE. 9999) GO TO 610 6000 FORMAT (1x, "ENTER TOTAL NO. OF UNIT, 5", /) I=9 CALL OPENM(NFIT,3LI-0)
PRINT 506 FORMAT(1x, "ENTER UNIT(8 IF GONE) -") I=I+1 REAJ(6.502) GRRAY(I+2) IF(JRRAY(I+2).NE.=0=) GO TO 6500

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CRRAY(I+2)=0 CALL CLOSEN(NFIT) 60 TO 616 HE=1 BRRAY(2) = GRRAY(I+2) BRRAY(3) = 99999 CALL GET (MFIT, BRRAY, BRRAY(1))
IF (3RRAY(3).ME. 99999) GO TO 682
GFR3=BRRAY(2) 60 TO 684 602 CONTINUE PRIATO, "NEXT-" GO TO 6501 616 CALL PUT(LFIT.CRRAY,200.GRRAY(1)) SIB CALL PURCETION OF THE MOST FOR THE STATE OF THE STATE 603 FURNALLLY

GO TO 612

619 PRINT 603.GRRAY(2)

GO TO 612

604 PRINT 6002, GFRC

802 FORMAT(1x, "UNIT ", A18, "NOT ON FILE AND NOT ADDED ") 000119 612 00 311 ILK=3.28 CRRAY(ILK)=8 CONFINUE CALL CLOSEN(LFIT) GO FO 608 C **THIS PORTION OF PROGRAM ADOS UNIT"S TO AN EXISTING PARENT** 788 DO 782 I=1.18 BERR (1)=0 88ERR(I) =0 CERR (I)=0 CCH5 (I)=0 702 CONTINUE PRINT 701 781 FORMAT(1x, "CHANGE-ENTER PARENT ID(END TO EXIT) -- ") READ (6.502) CFRC CALL OPENM (LFIT.3LI-0) IF(3FRC.EQ.3MEND) GO TO 16 CRRAY(3)=99999 CRRAY(2) = CFRC CAL_ GET (LFIT, CRRAY, C RAY (1))

j

IF(2RRAY(3).NE.99999) GO TO 750	00014
799 PRINT 703.GRRAY(2)	30614
703 FORMAT (1x, "PARENT ", A10," NOT ON FILE")	00014
CALL CLOSEM(LFIT)	88814
60 10 709	80815
750 PRINT 6000	80815
CAS (6,0) LEND	08 91 5
00 768 I=1,LENO	80815
PRINT - "ENTER UNIT NO. ", I. ""	00015
READ (6,502) CCHG(I)	30015
760 CONTINUE	00015
N# @	00015
H=0	00015
S BALDRAM APAG MARA TURAR MARAMA TA AR ARA TARA	00015
C	90016
	00016
C -PARRAY BBERR KEEPS THE UNITES IN BERR HMICH DO NOT EXIST-	00016
	00016
00 788 J=1,LEND IF(GCMG(J).EQ.0) GO TO 788	00016
and the state of t	30016
00 770 1=3,20 IF(3RRAY(I).EQ.CCHG(J)) 60 TO 776	00016
778 CONTINUE	00016
17 0 00H) \$NOC	99916
BERR (N)=CCHG(J)	888171
GO TO 780	03017
776 4=H+1	00017
CER? (M)=CCMG(J)	20017
788 CONFINUE	888174
NN=1	00017
CALL OPENH(NFIT,3LI-0)	00017
00 705 I=1.N	86817
BRRAY(2) = BERR(I)	00017
3RR4 Y (3) = 99999	20017
CAL. GET (NFIT, BRRAY, BRR AY (1))	00018
IF (3RRAY (3).NE. 99999) GO TO 715	20018
NN=4N+1	00016
BBERR(NN)=BERR(I)	00018
GO TO 705	000184
715 00 785 JK=3,20	08016
IF(3RRAY(JK).NE.8) GO TO 785	00018
CRRAY(JK)=8 ERR (I)	00019
GO FO 785	QQQ180
785 CONFINUE	00018
785 CONFINUE	.000190
CALL CLOSEN(NFIT)	00019
GALL REPLC(LFIT, CRRAY, 200, CRRAY(1))	00019
707 IF(4.EQ.0) GO TO 709	00019

Ó

PRINT 708 GFRC	088194
788 FORMAT (1x, "FOLLOWING UNIT.S WERE ALREADY PRESENT IN".	000199
1" PARENT ", A10)	000196
DO 7100 I=1,4	000197
PRINT 665.CERR(I)	000196
665 FORMAT(12x,A18)	800199
7108 CONTINUE	080200
789 IF(4N.EQ. 8) GO TO 7281	000201
766 PRINT 7686	000202
7888 FORMAT(1x, FOLLOWING UNIT, S NOT FOUND ON UNIT-FILE",/,	000203
21X-THEREFORE HERE NOT ADDED TO	000204
DO 7288 I=1.NN	000205
PRINT 605,89ERR(I)	000206
7288 CONFINUE	900207
7291 GALL GLOSEM(LFIT)	000206
50 FO 788	889299
<u> </u>	000210
C ++THIS PORTION OF THE PROGRAM DELETES AN ENTIRE PARENT OR	800211
C ** DELETES UNIT S WITHIN A PARENT **	<u> </u>
C .	000213
860 PRINT 801	300214
801 FORMAT (1X, "DELETE-ENTER PARENT TO (END TO EXIT) ")	000219
READ (6,8000) CFRC	000216
CALL OPENH(LFIT.3LI-0)	900217
8000 FORMAT (A10)	00021
IF (JFRG. EQ. 3HEND) GO TO 16	000219
PRINT 6001	000 550
8801 FORMAT(1X, "ENTER TOTAL NO. OF UNIT.S TO BE DELETED-",	000221
3"ENFER O TO DELETE THE ENTIRE PARENT ")	000222
READ(6,*) LEND	000223
GRRAY (2)=GFRC	000224
CRRAY(3)=99999	000225
CALL GET (LFIT, CRRAY, CRRAY (1)) IF (2RRAY (3), EQ. 99999) GO TO 844	
IF (LENO. EQ. 0) GO TO 898	900227 000229
00 8500 I=1.LENO	000229
PRINTP, "ENTER UNIT NO. ", I, ""	08 02 30
READ (6,502) CCHG(I)	000231
ASO A CONTINUE	000232
GO TO 850	000233
848 PRINT1111.GRRAY(2)	000234
1111 FORMAT(1X,A1Q," NOT ON FILE")	000235
CALL CLOSEN(LFIT)	000236
GO TO 800	003237
850 IF(3CHG(1).EQ.0) GO TO 890	200238
K=0	000239
00 888 J=1,LENO	000243
IF (CCHG(J).EQ.0) GO TO 880	000241

00 868 (1=3.20 IF(3RR) (1).EQ.0) 60 TO 868 IF(3RR) (1).EQ.CCHG(J) 60 TO 866 000242 000243 000244 868 CONTINUE 000245 K=K+1 080246 800247 **CERR HERE KEEPS TRACK OF THE UNIT"S NOT FOUND FOR THE PARENT .. 845000 000249 CERR (K)=CCHG(J) 000 250 GO FO 888 866 CRRAY(I)=0 000251 800252 888 CONTINUE 000253 CALL REPLG(LFIT, GRRAY, 200, GRRAY(1))
IF(X.EQ.0) GO TO 800 800254 000255 PRINT 8892.CFRC 8882 FORMAT(1X. THE FOLLOWING UNIT'S WERE NOT FOUND FOR PARENT ... 100256 000257 4410, 1X) 000258 00 8100 I=1,K 000259 PRINT 605, CERR(I) 000260 8100 CONTINUE 000261 GALL CLOSEN(LFIT)
GO FO AGG
898 CALL CLOSEN(LFIT)
CALL CLOSEN(LFIT) 000262 000263 000264 000265 30 TO 568 000266 000267 **THIS PORTION OF THE PROGRAM LISTS ALL PARENTS PRESENTLY ON FILE** 000268 000269 1000 CALL OPENM(LFIT.3LI-0) 000270 1100 CONFINUE 000271 CALL GETN (LFIT. GRRAY, CRRAY(1)) 000272 H=IFETCH (LFIT, ZLFP) 008273 IF(4.EQ. 1888)GO TO 15 IF(3HOLD-EQ.CRRAY(1)) GO TO 1288 000274 000275 GO TO 1108 15 CALL GLOSEH(LFIT) 000276 888277 GO FO 20 1200 PRINT 503, CRRAY(2) 000275 000279 DO 1285 I=3,28 IF(3RRAY(I).EQ.8) GO TO 1285 00028C PRINT 504, CRRAY(I) 38282 1205 CONFINUE 000283 DO 1 206 I=2.20 300264 CRRAY(I)=0 000285 1206 CONTINUE 000286 GO TO 1100 900 PRINT 9000 000287 9800 FORMATILX, "ANY MORE PARENT STRUCTURES TO BE UPDATED? "./)

0

0

	
READ (6,9881) NY 9881 FORMAT(A1)	000
BOO1 FORMAT(A1)	001
IF(47.EQ.1HY) GO TO 19	900
PRINT 961	980
981 FORMAT (1x, " ALL DONE JDB MAS ENGED ")	000
ENO	98(
	
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OFGSPAM MATPIX(INPUT, OUTPUT, CLOATA, TAPEIC=IMPUT, TAPE3=CLCATA)	3:013
urhmon/one/IFIT(35),JFIT(35),KFIT(35),LFIT(35)	10011
DIMENSION AFOR (20) . AUID (24) . ASPC (46) . ARRAY (90) . ATOT (25)	9 38 12
DIMENSION AEXTRA(10).KEY(171),FPS(80.2)	33613
DIMENSION [HEAD(4), IFOR(5), IPENT(4), STATS(30.10), IEFF(4), ICI(5),	
1755CT (5) + CU4P HY (30)	00015
DATA STATS/300°C./	33616
DATA IHE4D/"(1H+,"," ","Y,+X,2HUN,","3HIT#,A19)"/	3 30 17
7414 JF79/"(1H+,"," ","Y,+X,2HEL,","5X,4HREMA,","2HIN)"/	
04T4 [PPHT/"(14+,"," ","4,4%,[2,","5%,F4,1)"/	30019
<u>9474 </u>	13626
7ATA ICI/"(1H+."," ","X.4X.2HLA.","6HST CI#,"."A177"/	33021
DATA TSFCT/"(14+."." "."X,4X,2MSE."."F4CTOR=."."F5.1)"/	33655
CALL FILETS (LFIT, 3LLFM, SLTAPEY, 2LKA, ARPAY, 2LPM, 1LR,	33052
.3LF4T,3L4ES)	3 1024
CALL FILEIS(IFIT. BLLEN. SLTAPER. EL KA, AFGR. ELPH. LLP.	11625
. TLF 41. TL YES)	13626
GALL FILETS (JFIT, BLLFN, BLTAPEZ, BLKA, AUIO, BLPM, BLR,	3 3 6 2 7
3LF4I,3LYFF)	3 36 28
CALL FILFIS (KFIT, BLLFN, SLTAPE*, 2LKA, ASRC, 2LPM, 1LR,	11529
.3LF4I.*ILYES)	03033
CALL CPENTS (3.KEY.171.7)	~ 33031
JALL PEARMS (3, FPS, 163, 34)	33032
CALL CLOSMS (3)	33633
1 PRINT 120	33034
188 FORMAT(1X, "IDENTIFY TYPE FOOLE ")	33035
PF17(13,9732) TYPF	200369
12674(2) 4727127	20037
TF(TYPE,E0,1PP) _	3 3 6 3 8 3
TECTYPE, EC. 1H3.CP.TYPE.EC. 1HP) GO TO 3	33039
POTENTA, THIVAL TO-TRY 134IN "	33849
30 10 1	33041
3 _HOLD=40014(3)	33542
4 APRAY (3) = 44 CE C	333431
90 13 T=2,27	33044
10 AF79(1) = 5	33645
7C 11 T=2,2+	33646
11 4017(1) * ?	33647
76 12 ***. • 4	11648
12 4SRC(I) * 1	3:049
70 13 [#4.9]	334FG
13 1000 (7) = (22251
NC 14 [#1,25	10452
16 4737 (1) = 3	-11253
GC TO 25	12554
111 FORWAT (17, "FOLLOWING ACTIONS CAN BE EXECUTED". /.	1:255
.1y, "A=Ann NEW Forces", /,	330560
.14."Cachange A Unit's EFFECTYVENESS, CIL. OF UNIT TYPE"./.	11357
.1 v. "Decelete 4 FORCE (PAPENT UNIT) "./.	0.2055

.1x, "P=PEP517(PFVIEW)_ P=P5NTS",/,	3395
.1x, "LaLIST ALL PARENTS", /,	1106
.1 V. TIERTTYTTILTZE FOOCE FILE"./,	3386
.1x."E=ENO THE PROGRAM")	1206
25 PPINT 111	1116
110 FORMAT(17, "ENTER ACTION TYPE(X FOR LIST) ")	3366
TC45#0	3 3 2 6
READ(13.123) IKK	3306
12G FCPMAT(A1)	330é
IF(IKK.ED.144) PRINT 111	1366
IF(TKK.EG.1Hx) GC TO 25	3966
IF(IKY.EQ.140)GOTO325	3397
IF(TKK.EQ.1HD) GC TC 578	1907
TF(TKK73.1%R) GC T7 9998	9367
IF(IKK.50.1HL) GO TO 253	3387
IF(IKK.EQ.1HE) GC TO 9050	3 167
IF(TKK.E0.1HA)_GO_TO_202	3 3 8 7
TF(TKK.FQ.14T)GCTO813	3337
PRINT*, "ACTION CODE FREDR "	3 2 2 7
SP TO 25	3 347
2C1 FORMAT(41:)	3307
2:5 TC 4G#1	3 10 5
DETATE PERSON I.J. () IF DONE)"	2305
9EA02C1,A794Y(1)	1018
IF(47°AY(1).Eg."C")GOTG3	3038
PPTHT*, "THTER UNIT I.G."	0000
?EA0291,49RAY(2)	3364
1674Y (3) = 99995.	2006
CALL OPENMILFIT, 3LI-0)	2038
CALL GET (LFTT, APPAY, APPAY(1))	1868
TF(APCAY(3).EG.99999.)PRINT211, APRAY(2), APRAY(1)	1338
[F(1PPAY(3).EG.99994.)GOTO235	3039
GOTOTOGG 211 FORWATE "."UNIT I.G. ".A1]." HAS NOT BEEN ICENTIFIED"./.	1119
On the Beforeing to bysent Winter and Months in the interest and	3326
355 abinit mentes AV10s codacia it 20051-4	3339
350 PEAD(10,201) ATOT(1)	3 109
\$ (4101 (1) . £0. "5") 50 10 9	
AF09(1)=AUIO(1)=AS3C(1)="S9C"	1709
CALL OPENHILATION	1739
1057A (2) = ue Ub CIH	1449
40217 (412).	3113
CALL OPENM (TETT. 3LI-C)	3 21 2
4F09(2) = 4T0T(1)	
4F0P(3) = 94399.	3310
GLLL GET (TEIT, AFOR, AFOR(1))	3313
IF(4F03(7).60.39939.) 30 TO 6000	1710
JUL APENY (JETT, 3LT-0)	3310

* **5**

00 ~000 J=3.23	031973
TF (AFOR (J) - 20 - 7) - 50 TO 3999 -	10108
4UTO(2) = 4FOR(J)	331699
TF(4FCR(J).E0.3) GO TO 3939	7311C
AUID(2) = 4FOR(J)	00111
(*(AFO*(J)(0.3) GO TO 3999	101120
AUID(2) = 4FCR(J)	331130
IF (AFOR (J) . 50 . 3) 50 TO 3999	73116
4UIN(2) = 1FCR(J)	13115
(F(1F0R(J).50.3) GO TO 3999	13116
4UIN(2) = 4F0R(J)	33117
IF(AFOR(J).=0.3) 50 TO 3999	J J 1116
4UI9(2) = AFOR(J)	101193
IF (AFOP(J) .EC. 1) SO TO 3399	3 3 1 2 5 0
4UIT(2) = 4FCP(J)	001210
[F(AFOR(J).=0.3) GO TO 3399	JG122
4UTO(2) = 4FCR(J)	141230
4U[7(3) = 59999.	33124
CALL GET (JETT, AUTC, AUTC(1))	3 3125
IF(AUTO(3) .FG. 59999.) 60 TO 7000	73126
1PR1Y(6) = 1	3 3127
JALL OPENM (VETT. 3LI-0)	13128
70 3369 K # 3, 26	001299
IF (AUTO(K). FG. Q) SC TO 3000	30130
ASRC(2) = AUIC(K)	3 21313
4572(3) * 93939.	731323
CALL GET (KETT, ASRC, ASRC(1))	001333
TF(ASC(3).E0.99999) 30 TO 6000	331340
00 2000 La 3,45,2	331353
TF(45°G(L1.E0.1) 30 TG 2775	13136
ID = ASRC(L) + 10	331373
42944(10) = 42644(10)+4573(L+1)	11138
1071Y(5)=1074Y(6)+4SRC(L+1)*FPS(ID-10,44)	351390
2000 CONTENUE	331400
3003 CONTINUE	001413
CALL CLOSEM(KEIT)	111420
	331430
4634Y (2) = 4UTO (2)	0 33 44
60103099	3 31 4 5 3
238 TCHG=1	11146
CALL OPENM(LEIT, JLI-0.1LR)	111-70
209 CALL GETN(LFIT, MOPAY, ART AY (1))	131-60
M=[FFTGH(LFTT, 2LFF)	101493
tF(M. FG. 130 3) G0TO210	39150
3099 PPINT 9365.4RRAY(2)	331513
SAGS FORMATION ENTER PEL EFFICET INTENSITY LVL. AND UNIT TYPE OF	
PEADT +CY+CTL+UT	301530

IF(UT.LT.3..69.UT.3T.4.)GOTO6A88
TF(CV.ST..01.AND.CV.LE.188.)SOTO3188
PRINT#. "TNV4LID REL EFF--TRY .GAIN " 301553 331563 301573 50103539 331593 GOTOSCOS 331593 301633 SOFOSSSS CONTRACTOR OF TABLES SOFOSSSS CONTRACTOR OF SOFOSSSS CONTRACTOR OF TABLES CONTRACTOR 031610 J:1620 3133 00 3155 IT=1.83 TF(APRAY(II+13).LE.2.)9CT0315C 19R4Y(II+13)=10PAY(II+13)*CY/130. 191630 331640 331653 031663 10844 (7)=CIL 331673 331683 4PPAY(9) = ?! 331590 4P944 (11) =UT 331703 APRAY(11)=UT

[F(IIMS.F0.1)GOT0205

CALL PUT(LFIT,ARRAY.900.APRAY(1))

H= IFFTOH(LFIT.3LIRS)

[F(M.EQ...463) GO TO 501

GOT027

26 CALL PEPLG(LFIT.APRAY.930.APPAY(1))

IF(IKK.SC...TT)GCT0239

210 CALL CLOSFY(LFIT)

207 DG 1031 [J=11.90

3031 ARRAY(IJ)=0.

IF(ICKG.FG.1.AND.IKK.FG...CT)GCT0235 3 3 1 7 1 3 331723 331730 331750 131761 341770 131753 101790 331800 1031 4-44(1)183. IF (ICHG.EG.1.AND.IKK.FQ."C"16010235 IF (ICHG.FR.1.LMS.IKK.FQ."I")6010614 3999 CONTINUE 4003 CONTINUE 131613 111820 301830 301843 CALL CLOSEM(JETT)

5000 CALL CLOSEM(IETT)

2011 SLOSEM(LETT)

IF(1707(1).WE."2") PRINT*, "WEXT-"

IF(1707(1).WE."3") 30 TO 350 J0185J 101870 111883 001690 75196: 3062 FORMAT(1/1) 30 TO 3 SIJ POTNTY, "TO YOU WANT TO SMANGE THE UNIT SEE, GIL, OF TYPE FOR 13191: GALL UNITS?"

ZEAO(11, 201)TNY

TE(TNY. EO. "Y")GCTC278

IE(INX. EO. "W")FOTO81+ 31933 79194: 1:197: POTHT . "DESPONSE MUST BE Y OF N " 5077813 816 CALL OPEN*(LFIT, 3LI-G, 1LP)
CALL OPEN*(JFIT, 3LI-G)
CALL OPEN*(KFIT, 7LI-G)
512 CALL GETN(LFIT, 7RPAY, 1RTAY(1)) 331990 112913

O

"=[FFTC"(LF[T,2LFP) IF(",F2,1]33)G3T040] !UID(1)=LS93(1)="S9g" AUID(1)=LS93(1)="S9g" 112043 12250 112060 AUTH(2)=AP944Y(2)

JUTH(3)=59539.

CALL GET(JFIT,AUID,AUTH(1))

IF(AUID(3).60.59993.)PQIRT7302,APFAY(2)

JE(AUTH(1).60.99993.)GOTC755

7362 FCRMAT(14,"UNIT 10",m13," 40T ON UNIT FILE. THEREFORE NO HPN IO/OTD32110

1Y57./.1X,"MILL 36 ASSOCIATED AITH THIS UNIT.")

JUZ123

OC756 I=11.50

JUZ133

APPAY(7)=7.

ZEO CONTINUE

JUZ153 750 GCMTINUE 811 APRAY(6)=0. 112151 132150 013 30710 K=3,24 TF(AUTO(K).40.319073713 ASRC(2)=4UT3(K) 112173 742193 0 12 19 3 ASRC(2) + 10[3(K) ASRC(3) + 36339. TE (1380 (T) - 50 - 36909 , PRINT 3) 21 , HUTO(K) , ARRAY(2) , HOTAY(1) IF (ASPC(3) - 50 - 36909 - 1 90FC713 HOTA L = 3 + 5 , 2 IF (ASPC(L) - 50 - 1) 90FO7 3 1 IC=ASRC(L) + 15 - 50PAY(TD) + 49PAY(TD) + 28C(L+1) 332236 102210 002223 332233 102243 132261 Tb474(E)=E4474(E)+7246(F+T)=E42(10-13*78874(2)) 12271 132283 730 CONTINUE 710 CONTINUE 332293 332383 00750 [=1,3] IF(1894Y(7+10).LE.J)S070763 102310 499 17 (T+13) = 49947 (T+13) + 28247 (3) /130 .
3047 NUT 132321 0 2 2 3 3 3 102343 760 765 4774Y(4)="PTST49T" 302350 CALL REPLICLFIT, 1024V, 310, 4984V(1)) 132361 19237: GOTOc12 400 CALL CLOSER (JEST) 112361 CALL CLOSEM(LETT) J 12393 302600 332410 SCT 19 500 30147 531,43644(21,48644(21,48644(2) 501 509481(14, 3(24,413),14,48426404 ON FILE") 112423 20243; so to with end primt 611 612 FORMAT(17, MOSLETS-ENTER FORUE TOTEND TO EXIT) -- "F 132457 102-69 2F40(10.231) ASCENE TALL OPENH(LETT, SLT-0)
TE(ASCENE, EG. 3MEND) GO TO 513
A13 CALL GETH (LETT, AFPAY, ARRAY(I)) 112481 112496

M-27

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TF(M, PG, 15C3)		
TF(M, PG, 15C3)	4=1FFTC4(1 FTT.21 FP)	3 3251
TF(18PAY(1),NE,ASCEME) GO TO 510 32 15 16 (18PAY(1),NE,ASCEME) GO TO 510 32 32 32 32 32 32 32 3		13252
### ##################################		11253
### SALL STECHTLAPPAY(1) ### OF TO \$10 ### OF TO \$10 ### OF TO \$10 #### OF TO \$10 ###################################		11254
GO TO 510 612 GALL CLOSSMILETT 613 GALL CLOSSMILETT) 613 GALL CLOSSMILETT) 30 TO 9 603 APRIX 6311, ATCT(1) 501 FCGMAT(1X, MMC L.O.",A13." NOT PREVIOUSLY IDENTIFIED".:X./.1X. 1"YOU WILL MAYS TO UPDATE THE FORCE FILE IF YOU WANT HIM INCLUSED".:X./.1X. 2"" IF THE MATTLE" 30 TO 5102 7020 POINT 7101, AFGR(J), ATOT(1) 7031 FCCMAT(1X, MMIT IOM,A10." HAS NOT REEN PREVIOUSLY IDENTIFIED"./. 21X, MMS SENS INCLUDED IN FOOLF TO MAX3./. 21X, MMS SENS INCLUDED IN FOOLF TO MAX3./. 30 TO 430 303 POINT 301, AUDIX), AFGR(J), ATOT(1) 3031 FCCMAT(1X, MSC		02255
612 Delt Unstantial Ochs With This Delster 612 Delt Unstantial 613 Delt Unstantial 613 Perm 6311, Atcr(1) 614 Perm (1x, "med [10,",A1], "Not Perviously Identified".ix./,1x, 33 1 "You will "Ave to Undate the Force File if You want with Included",33 70 To 13 To 30 T	 	11256
612 GALL CLOSEMILFIT) 30 TO 9 6203 PPINT 6331, ATOT(1) 6204 PPINT 6331, ATOT(1) 6204 PPINT 6331, ATOT(1) 6207 PPINT 6331, ATOT(1) 6207 PPINT 7031, ATOT(1) 27." IP THE SATTLE") 30 TO 5302 7209 PPINT 7011, AFOR(J), ATOT(1) 7201 FORWART(X, "SMIT IO", ALC, "HAS NOT REEN PREVIOUSLY IOENTFIEO", 30 11X, "AS SETNS INCLUDED IN FOOLE IO "ALS, "ALS NOT REEN PREVIOUSLY IOENTFIEO", 30 21X, "THE FOOLE IS REING CREATED BUT THIS UNIT WAS LEFT OUT") 30 TO 40 100 3003 PPINT 3001, AUTO(K), AFOR(J), ATOT(1) 8001 FORWART(X, "SOUTH AUTO(K), AFOR(J), ATOT(1) 4001 FORWART(X, "SOUTH AUTO(K), AFOR(J), ATOT(1) 50 TO 3100 3002 PPINT 3001, AUTO(K), AFOR(J), ATOT(1) 4003 FORWART(X, "SOUTH AUTO(K), AFOR(J), ATOT(1) 50 TO 3100 30 TO 4100		33257
30 TO 9 6203 PPRT 6311, ATCT(1) 521 FCR46T(4,"WEC [.0.",A13." NOT PREVIOUSLY IDENTIFIED".1x./,1x. 33 1 "YOU WILL MAVE TO UPDATE THE FORCE FILE IF YOU WANT WIM INCLUGED",33 2/" IF THE MATTLE") 5C TO 5127 7209 POINT 7101, AFOR(J), ATOT(1) 117."AS JEING INCLUDED IN FORCE ID ".A13./, 21x."THE FORCE IS REING CREATED BUT THIS UNIT WAS LEFT OUT") 33 70 TO 4130 30.0 PRINT 3021, AUTD(X), AFOR(J), ATOT(1) 30.1 FCOWAT(X," SOC ".A11.1x."MOT ON TOE FILE",/, 314."THEFOREE THE HOM ISSURED BUT THIS UNIT WAS LEFT OUT") 32 TO 4130 33 TO 4130 34 TO 4130 35 TO 4130 36 PRINT 3021, AUTD(X), AFOR(J), ATOT(1) 36 TO 4130 37 TO 4130 38 TO 4130 38 TO 4130 38 TO 4130 38 TO 4130 39 TO 4130 30 TO 4130 3		11255
6101 PPINT 6311, ATOT (1) 5001 POPWAT(1Y, "CDC [10,",A13." NOT POEVIOUSLY IDENTIFIED",1X,/,1X, 1 "YOU WILL "AVE TO UPPOATE THE FORCE FILE IF YOU WANT HIM INCLUDED", 33 7000 PPINT 7301, AFOR(J), ATOT (1) 11X, "MS 3 STUS INCLUDED IN FOOLE (2 ".A13.// 21X, "THE FORGE IS BEING CREATED BUT THIS UNIT WAS LEFT OUT") 30 TO #10 300 PPINT 3301, AUD(X), AFOR(J), ATOT (1) 301 POPWAT(1Y, "SSC ".A13.1Y, "NOT ON TOE FILE"// 11X, "THEFORE THE WOM I.O./71Y, 3 ASSOCIATED WITH THIS SRC",/, 33 30 PPINT 3301, AUD(X), AFOR(J), ATOT (1) 30 OF TO 3103 30 OF T		11259
SQC1 FCGMAT(1(1, "EMP. 1.0.", A1)." NOT PREVIOUSLY IDENTIFIED", 1x, 1x, 1x important latter 10 profit fat Force file if you want min included 10 cm of 500 10 cm		33260
1"YOU WILL HAVE TO UPDATE THE FORCE FILE IF YOU WANT "TH INCLUCED", 32, " I'P THE BATTLE")	SOCI FORMATCIY, "FHC I.D.", A13." NOT PREVIOUSLY IDENTIFIED".1X./.1X.	3 3 26 1
2/." If the MATTLET? 30 TO 5101 30 TO 5101 7001 PRINT 7101, AFOR(J), ATOT(1) 30 112, MAS NOT BEEN PREVIOUSLY IDENTIFIED"./, 31 112, MAS NOT BEEN PREVIOUSLY IDENTIFIED"./, 32 112, MAS NOT BEEN PREVIOUSLY IDENTIFIED"./, 32 112, MAS NOT BEEN PREVIOUSLY IDENTIFIED"./, 33 112, MAS NOT BEEN PREVIOUSLY IDENTIFIED"./, 30 10 400 30 TO 400 30 T	1 TYOU WILL HAVE TO UPDATE THE FORCE FILE IF YOU WANT HIM INCLUDED	, 11262
SC TO S S S T T T T T T T		93263
7:01 FC?MAT(1x, "UNIT 10",A10," HAS NOT BEEN POEVICUSLY IDENTIFIED",, 21 11, "MAS 3EINS INCLUDED IN FOOLE ID ".A11,", 32 21x, "THE FORGE IS BEING GREATED BUT THIS UNIT HAS LEFT OUT") 32 30 TO 430; 30 8031 FORMAT(1x, "S2", A11,1x, "NOT ON TOE FILE",, 32 11x, "THEOFORE THE HOM I.G./7Ty, 3 ASSOCTATED WITH THIS GROW,, 32 21x, "WILL NOT SE INCLUDED IN UNITIO ".A12,1x, "FRO IO ".A12) 33 30 TO 7310 30 9000 POINT, "ENTED COPCE ID TO BE LISTED = " 30 25 TO 7310 30 26 COLL COMM(LETI, 3LI-O) 32 27 TO 3125, "YOR 33 30 CS FORMAT(1x, "TYPE FOOLE ".A13//) 32 27 TO 3125, "YOR 33 30 CONTINUE 32 CALL GETN(LETT, ARGAY, ARGAY(1)) 32 AMBO GALL GETN(LETT, ARGAY, ARGAY(1)) 33 TO ALL GETN(LETT, 2LFF) 30 TO ALC, ARGAY(3) GO TO 9320 31 TO ALC, ARGAY(3) GO TO 9320 32 TO ALC, ARGAY(3) GO TO 9320 32 POINT 372F, ARGAY(2) 30 3027 FORMAT(3x, "MATY(2) 32 3027 FORMAT(3x, "MATY(2) 32 3027 FORMAT(3x, "MATY(2) 32 TO 37 TO 377, ARGAY(2) 32 TO 37 TO 377, ARGAY(2) 32 TO 37 TO 377, TRAY(2) 32 TO 37 TO 372 T		30264
7:01 FC?WAT(1X, "UNIT 10", 10," HAS NOT REEN POEVICUSLY IDENTIFIED", 31 11, "MAS DETAS INCLUDED IN FORCE ID ".A13, 7, 21X, "THE FORCE IS REING CREATED BUT THIS UNIT HAS LEFT OUT") 32 30:00 4000 30 80:01 FCPWAT(1X, "S2C ".A11.1X, "NOT ON TOE FILE", 7, 21X, "THEORROSE THE WOM I.G./7TY, 3 ASSOCTATED WITH THIS GRC", 7, 21X, "MILL "CT RE INCLUDED IN UNITIO ".A13, 1X, "FRC 10 ".A12) 33 30:01 ORITH, "CMT RE INCLUDED IN UNITIO ".A13, 1X, "FRC 10 ".A12) 33 30:01 ORITH, "CMT RE INCLUDED IN UNITIO ".A13, 1X, "FRC 10 ".A12) 33 30:02 ORITH, "CMT RE OCCE ID TO BE LISTED - " 33 40:04 ORITH, "CMT RE OCCE ID TO BE LISTED - " 33 30:05 FCPWAT(1X, "TYPE FCP) RE ".A13//) 33 30:05 FCPWAT(1X, "TYPE FCP) RE ".A13//) 33 30:05 FCPWAT(1X, "TYPE FCP) RE ".A13//) 35 40:06 FCPWAT(1X, "TYPE FCP) RE ".A13//) 35 40:07	7333 PRINT 7361. AFCR(J). ATOT(1)	3 3265
11x, "AS SEINS INCLUDED IN FOOLF ID ".A13, /, 21x, "THE FOOLS IS SEING GREATED BUT THIS UNIT WAS LEFT OUT") 30 TO 4300 3031 POINT 3001 , AUID (K), AFOR(J), ATOT(1) 8031 FOOWAT(IX, "SOS ".A10.1X, "WOT ON TOE FILE", /, 11x, "MILL WOT SE INSLUDED IN UNITID ".A13,1X, "FRO [0 ".A10) 30 TO 3100 30 TO 3100 30 OOINT*, "ENTIRE GOOGS ID TO 35 LISTED = " 30 SELUCIO, 2011 ASCENE 31	7001 FC2MAT(1X. "UNIT 10".410." HAS NOT BEEN PREVIOUSLY IDENTIFIED"./.	23266
21x. THE FORSE IS SEING CREATED SUT THIS UNIT NAS LEFT OUT") 30 TO 430 300 PRINT 3001. AUID(K), AFOR(J), ATOT(1) 301 FORMAT(1Y, SOS ".A11.1Y. "NOT ON TOE FILE"./. 11x. THEOROGE THE WAN I.G./DIY, 3 ASSOCTATED WITH THIS DRG"./. 32 30 TO 3103 9008 ORITH. "CHI SE INDLUGED IN UNITID ".A13.1Y. "FRO 10 ".A12) 30 TO 3103 9008 ORITH. "CHIT SE INDLUGED IN UNITID ".A13.1Y. "FRO 10 ".A12) 30 TO 3103 9008 ORITH. "CHIT, 3LI-0) 40014(1)=4802HE 20141 332F. TYPE 3028 FORMAT(1Y, TYPE FORMER ".A13//) AH=9 CALL OFFIN(LFIT, 3LI-0) 310 CALL OFFIN(LFIT, ARPAY, ARRAY(1)) 410 THE FICH (LFIT, 2LFC) 15 TO 4.30.10.15) 16 CALL OFFIN(LFIT, ARPAY, ARRAY(1)) 17 (ALA.ME.ARRAY(3)) 18 TO 4.30.10.15) 19 TO 4.30.10.15) 19 TO 4.30.10.15) 30 TO 30.00 30 PRINT 30.2F., ARRAY(2) 31 PRINT 30.2F., ARRAY(2) 31 PRINT 30.2F., ARRAY(2) 31 PRINT 30.7C., ARRAY(2) 31 TO 4.30.10.7. "NIT TO: ".A10.": LAST CI: ".A10.": SECTOR: ". 33 16 3.70.23X. "MAN"/24X." ID 17 ON 3.70.73X. "MAN"/24X." ID 17 ON 3.70.73X. "MAN"/24X." ID 17 ON 3.70.73X. "MAN"/24X." ID 18 ON 3.70.73X. "MAN"/24X." ID 19 ON 3.70.73X. "MAN"/24X." ID 10 ON 3.70.73X. "MAN"/24X." ID 11 THE TOTAL THE TIME TO THE THE THIS SECTOR: ". 33 15 TO 7.73X. "MAN"/24X." ID 17 ON 3.70.73X. "MAN"/24X." ID 18 ON 3.70.73X. "MAN"/24X." ID 19 ON 3.70.73X. "MAN"/24X." ID 10 ON 3.70.73X. "MAN"/24X." ID 11 ON 3.70.73X. "MAN"/24X." ID 12 ON 3.70.73X. "MAN"/24X." ID 13 ON 3.70.73X. "MAN"/24X." ID 14 ON 3.70.73X. "MAN"/24X." ID 15 ON 3.70X. "MAN"/24X." ID 16 ON 3.70X. "MAN"/24X." ID 17 ON 3.70X. "MAN"/24X." ID 18 ON 3.70X. "MAN"/24X." ID 19 ON 3.70X. "MAN"/24X." ID 10 ON 3.70X. "MAN"/24X." ID 11 ON 3.70X. "MAN"/24X." ID 12 ON 3.70X. "MAN"/24X." ID 13 ON 3.70X. "MAN"/24X." ID 15 ON 3.70X. "MAN"/24X." ID 16 ON 3.70X. "MAN"/24X." ID 17 ON 3.70X. "MAN"/24X." ID 18 ON 3.70X. "MAN"/24X." ID 19 ON 3.70X. "MAN"/24X." ID 19 ON 3.70X. "MAN"/24X." ID 10 ON 3.70X. "MAN"/24X." ID 10 ON 3.70X. "MAN"/24X." ID 10 ON 3.70X. "MAN"/24X." ID 11 ON 3.70X. "MAN"/24X." ID 12 ON 3.70X.	117. MAS BETAG INCLUDED IN FORCE ID ".A11./.	33267
30 TO 4130 302 PRINT 3021, 4UID(K), AFGR(J), ATOT(1) 303 FROMAT(1X, S2C ", A13,1X, "MOT ON TOE FILE", () 1		112€8
### ##################################		30269
8031 FROMAT(IX, " S9G ", 11:, 1X, "NOT ON TOE FILE", /, 11	9302 PRINT 3221 , AUID (K), AFOR (J), ATOT (1)	33273
11x, "THEOREGRE THE WOM 1.0./QTY, 3 ASSOCIATED WITH THIS SRC", /, 21x, "WILL "OF SE INCLUDED IN UNITID ".w13.1x, "FRO 10 ".w12) 33: 30 TO 3103 9003 POPINTA, "CANTSO SCORE ID TO 3E LISTED - " 30: 2440(10.201) ASCEME 30: 2441 OPENM(LEIT, 3LI-0) 31. 3025 FORMAT(1x, "TYPE FOR 3E ".w13//) 32: 3025 FORMAT(1x, "TYPE FOR 3E ".w13//) 32: 4024 GETM(LEIT, ARPAY, ARRAY(1)) 33: 4025 GONTINUS 32: 4026 GONTINUS 32: 4026 FORMAT(1T, 2LFF) 30: 4026 FORMAT(1T, 2LFF) 30: 4027 FORMAT(1X, "FOR 3E ".w12) 30: 4028 FORMAT(1X, "FOR 3E ".w12) 30: 4029 FORMAT(1X, "FOR 3E ".w12) 30: 4029 FORMAT(1X, "FOR 3E ".w12) 30: 4029 FORMAT(1X, "FOR 3E TO #.w12) 30: 4027 FORMAT(3Y, RRAY(2) ".w11) 70: 4027 FORMAT(3Y, "WNIT TO: ".w12, ": Last CI: ".w12, ": SECTOR: ", 30: 4027 FORMAT(3Y, "WNIT TO: ".w12, ": Last CI: ".w12, ": SECTOR: ", 30: 4027 FORMAT(3Y, "WNIT TO: ".w12, ": Last CI: ".w12, ": SECTOR: ", 30: 4027 FORMAT(3Y, "WNIT TO: ".w12, ": Last CI: ".w12, ": SECTOR: ", 30: 4027 FORMAT(3Y, "WNIT TO: ".w12, ": Last CI: ".w12, ": SECTOR: ", 30: 4029 FOR 30: "WNIT TO: ".w12, ": Last CI: ".w12, ": SECTOR: ", 30: 4000 FOR 30: "WNIT TO: ".w12, ": Last CI: ".w12, ": SECTOR: ", 30: 4000 FOR 30: "WNIT TO: ".w12, ": Last CI: ".w12, ": SECTOR: ", 30: 4000 FOR 30: "WNIT TO: ".w12, ": Last CI: ".w12, ": SECTOR: ", 30: 4000 FOR 30: "WNIT TO: ".w12, ": Last CI: ".w12, ": SECTOR: ", 30: 4000 FOR 30: "WNIT TO: ".w12, ": Last CI: ".w12, ": SECTOR: ", 30: 4000 FOR 30: "WNIT TO: ".w12, ": Last CI: ".w12, ": SECTOR: ", 30: 4000 FOR 30: "WNIT TO: ".w12, ": Last CI: ".w12, ": SECTOR: ", 30: 4000 FOR 30: "WNIT TO: ".w12, ": Last CI: ".w12, ": SECTOR: ", 30: 4000 FOR 30: "WNIT TO: ".w12, ": Last CI: ".w12, ": SECTOR: ", 30: 4000 FOR 30: "WNIT TO: ".w12, ": Last CI: ".w12, ": SECTOR: ", 30: 4000 FOR 30: "WNIT TO: ".w12, ": Last CI: ".w12, ": SECTOR: ", 30: 4000 FOR 30: "WNIT TO: ".w12, ": Last CI: ".w12, ": SECTOR: ", 30: 4000 FOR 30: "WNIT TO: ".w12, ": Last CI: ".w12, ": SECTOR: ", 30: 4000 FOR 30: "WNIT TO: ".w12, ": Last CI: ".w12, ": Last CI: ".w12, ": Last CI: ".w12, "		33271
3C TO 31CB 9008 POINT*, "CATTER FORCE ID TO BE LISTED - " REAGIG (R. 2011 ASCENE CALL PERMICLEIT, 3LI-D) 1004Y (11*2SCENE PRINT 3725, TYPE 3025 FORMAT (17, "TYPE FORCE ".A13//) AMEQ CALL PERMICLEIT 9028 CONTINUE CALL SETNICLEIT, ARRAY, ARRAY(11) TETM. FOR 1011 GO TO 9120 TETM. FOR 1011 GO TO 9120 TETM. FOR 1011 GO TO 9120 PRINT 9028, ARRAY(11) GO TO 9120 11 (AL. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10	11x, "THEFFEORE THE WPM I.C./QTY, 3 ASSOCTATED WITH THIS SRC",/,	33272
9003 OF NT + MENTED FORCE TO TO SELISTED - "	21x "WILL "OF 35 INGLUDED IN UNITID ".A13.1x FRO 10 ".A13)	39273
READ(10, 2011 ASCENE CALL PREMM(LEIT, 3LI-0) 132 10-04Y(11= SCENE 201NT 3025, 7406 3025 ECOMAT(14, MTYDE ECO)E= ".A13//) AM=0 CALL PEANO(LEIT) 9026 CONTINUE CALL PETN(LEIT, ARPAY, ARPAY(1)) M=[FFTCM*(LEIT, 2LFP) 10 17(A4.NE. 1273) GO TO 9320 17(A4.NE. 12APAY(3)) GO TO 9320 17(A4.NE. 12APAY(3)) GO TO 9320 17(A4.NE. 12APAY(3)) GO TO 9320 18(M.50. 10-3)(1)) GO TO 9320 19(NT 9028, ARPAY(1)) 30 TO 9320 3026 COOMAT(14, MCOGC TO= ".A10) 3103 OPENT 3327, ARRAY(2) 3103 OPENT 3327, ARRAY(2) 3107 FOMAT(54, MNIT TO: ".A10,": Last CI: ".~10,": SECTOR: ", 310, 311, 312, 312, 313, 312, 313, 313, 313		10274
READ(10, 2011 ASCENE CALL PREMM(LEIT, 3LI-0) 132 10-04Y(11= SCENE 201NT 3025, 7406 3025 ECOMAT(14, MTYDE ECO)E= ".A13//) AM=0 CALL PEANO(LEIT) 9026 CONTINUE CALL PETN(LEIT, ARPAY, ARPAY(1)) M=[FFTCM*(LEIT, 2LFP) 10 17(A4.NE. 1273) GO TO 9320 17(A4.NE. 12APAY(3)) GO TO 9320 17(A4.NE. 12APAY(3)) GO TO 9320 17(A4.NE. 12APAY(3)) GO TO 9320 18(M.50. 10-3)(1)) GO TO 9320 19(NT 9028, ARPAY(1)) 30 TO 9320 3026 COOMAT(14, MCOGC TO= ".A10) 3103 OPENT 3327, ARRAY(2) 3103 OPENT 3327, ARRAY(2) 3107 FOMAT(54, MNIT TO: ".A10,": Last CI: ".~10,": SECTOR: ", 310, 311, 312, 312, 313, 312, 313, 313, 313	9008 PPINT+, "ENTER FORCE ID TO BE LISTED - "	30275
1904Y(1)=25CHE 27INT 3725, TYPE 3025 FORMAT(1Y, MYPE FOR)E= ".A13//) AM=0 CALL PERMO(LFIT) 302 GONTINUE 303 GONTINUE 304 GETM(LFIT, ARRAY, ARRAY(1)) 305 FORMAT(151) 306 TO 9123 307 FORMAT(151) 307 FORMAT(152) 308 FORMAT(153) 309 FORMAT(1	READ(10.201) ASCENE	115:4
20 20 20 20 20 20 20 20	CALL CREMM(LEIT.SLI-G)	33277
3025 F02MAT([1Y, "TYPE F02]E= ",A13//) AM=0 CALL PERMO(LFIT) 3026 CONTINUE CALL PETMO(LFIT, ARPAY, ARPAY(11) M=[FFTCM+(LFIT, ARPAY, ARPAY(11) M=[FFTCM+(LFIT, 2LFF) [F(M, F0.12)3) GO f0 9343 IF(ALME, ARRAY(3)) GO f0 9320 IF(ASCEME, ME, ARPAY(11) GO f0 9320 IF(AM, F0.190AY(11) GO f0 9330 APPLY 902E, ARRAY(1) 3020 PPLY 902E, ARRAY(2) 3027 F09MAT(3Y, "MRIY(2) 3027 F09MAT(3Y, "MNIT TO: ",413,": LAST CI: ",=10,": SECTOR: ", 30, 70, 9370 T=11,90 MF(ASPAY(1), EG.3.) GO f0 9333	4994Y (1) #4SCENE	35278
######################################	22[NT 3]2=, TYPE	33279
CALL GENNG(LFIT) 9028 CONTINUE CALL GETW(LFIT,ARPAY,ARPAY(1)) M=IFFTCM(LFIT,RPAY,ARPAY(1)) 15 (M.FQ.1015) GO TO 9120 17 (AL.ME.ARRAY(3)) GO TO 9120 17 (AL.ME.ARRAY(3)) GO TO 9120 17 (AL.ME.ARRAY(1)) GO TO 9120 18 (AL.ME.ARRAY(1)) GO TO 9130 19 (AL.MEARRAY(1)) GO TO 9130 19 (AL.MEARRAY(1)) GO TO 9130 10 (AL.MEARRAY(1)) GO TO 9130 11 (AL.MEARRAY(1)) GO TO 9130 12 (AL.MEARRAY(1)) GO TO 9130 13 (AL.MEARRAY(1)) GO TO 9130 14 (A.MEARRAY(1)) GO TO 9130 15 (AL.MEARRAY(1)) GO TO 9130 16 (A.MEARRAY(1)) GO TO 9130 17 (ARRAY(1)) GO TO 9130 18 (ARRAY(1), EG.3.) GO TO 9130 19 (ARRAY(1), EG.3.) GO TO 9130	3025 FORMAT(14, TTYPE FORCE: ".A13//)	3329C
9020 CONTINUE CALL SETNICEIT, ARRAY, ARRAY(11) V=IFFTONICEIT, 2LFF) 10 1F(M.FQ.12)3) GO TO 9323 TF(ASCEME.NE.ARRAY(3)) GO TO 9320 TF(ASCEME.NE.ARRAY(11) GO TO 9320 IF(M.FQ.190AVI) GO TO 9330 PPINT 902E, ARRAY(1) 3020 PPINT 902E, ARRAY(1) 3102 PPINT 902E, ARRAY(1) 3102 PPINT 902F, ARRAY(2) 3103 PPINT 902F, ARRAY(2) 3103 PPINT 902F, ARRAY(2) 3104 PPINT 902F, ARRAY(2) 3107 PPOMAT(5Y, "UNIT TO: ".A10,": Last CI: ".a1c,": SECTOR: ", 31 1F3.0/23X."MPN"/Z4X."ID 01 9370 T=11,90 FF(4904Y(1).EG.3.) 30 TO 9333		33251
CALL GETW(LFIT, ARPAY, ARRAY(1)) WIFFITCH(LFIT, 2LFF) IF (M.FO.1015) GO TO 9323 IF (ALAME.ARRAY(3)) GO TO 9320 IF (ASCEME.WELARRAY(1)) GO TO 9320 IF (AM.FO.109AY(1)) GO TO 9330 PPINT 9028, ARRAY(1) 3103 PPINT 9028, ARRAY(2) 3203 PPINT 9327, ARRAY(2) 3203 PPINT 9327, ARRAY(2) 3103 PPINT 9327, ARRAY(3) 3103 PPINT 9327, ARRAY(3) 3104 PPINT 9327, ARRAY(3) 311 PPINT 9328, PPINT TO: ",415,": LAST CI: ",-15,": SECTOR: ", 310, 310, 310, 310, 310, 310, 310, 310	CALL PERMO (LEIT)	11282
#=[FFTCM:(1FIT, 2LFF)	PUMITHOD BERE	
F(M.EQ.1235)	CALL SETM(LFIT,ARPAY,ARRAY(11)	3 1284
T(AL.NE.198AY(3))		90295
TF(ASCENE, NE, MRPAY(1)) 50 TO 9320 IF(AM. 90. 109MY(1)) GO TO 9330 PPINT 902E, APRAY(1) 3CC 99MAT(1Y. "508CE TO= ".A10) 3CC 99MAT(5Y. "UNIT TO: ".A10.": LAST CI: ".LC.": SECTOR: ". 33 1F3.0/23X. "APRAY(2) 178(49PAY(1).SG.3.) 90 TO 9333		10236
IF(1M.EQ.1974Y(1)) GO TO 3030 3330 3330 3330 3910 3330 3910 3330 3910 3330 3910 3330 3910 3330 3910 3330 3910 3330 3910 3330 3910 3330 3910 3330 3910 391	IF(A4.NE.ARRAY(3)) 60 TO 9120	G:287
PPINT 9028, 18F1V(1) 9026 F0FMT (1X. "F0RGZ TO# ".A10) 3103 PPINT 9127, 18R1V(2) 3027 F0FMT 9127, 18R1V(2) 163.0723X, "MPN "/24X, "ID OTY") 173.0723X, "MPN "/24X, "ID OTY") 174.074 V(1).50.0.) 90 T0 3333		13299
9026 F034AT(1Y, MED902 TD# ",A10) 3102 PPINT 3327, ARRAY(2) 3027 F034AT(5Y, MUNIT TO: ",A10,": Last CI: ",a10,": SECTOR: ", 163.0/23X, MUNIT	IF(4M-F0-1974Y(1)) GO TO 3030	33289
3102 PPINT 3127, ARRIY(2) 3027 FORMAT(5Y, MUNIT TO: ".410.": Last CI: ".410.": SECTOR: ". 30 163.0723x. MARNY 724x. "ID OTY") 100 9370 F=11.90 130 164.074Y(1).SG.3.) 90 TO 3333		11290
3027 F09MAT(5Y, "UNIT TO: ",410,": Last CI: ",410,": SECTOR: ", 30 1F3.0/23X, "MPN "/24X,"ID OTY") 30 00 9370 f=11,90 00 YF(49PAY(1).SG.3.) 90 TO 3330 30		3 3291
70 9370 T=11,90 33 YF(4974Y(1).SG.3.) 90 TO 3333 33	3103 OPINT 3707, 4RRAY(2)	13555
70 9370 T=11,90 33 YF(4974Y(1).SG.3.) 90 TO 3333 33	3027 FORMATION "UNIT TO: ".410.": LAST CI: "10.": SECTOR: ".	_13233
7F(2994Y(1).EG.3.) GO TO 3330 13		73 3294
		13295
		13236
	100# 7-10	3:297
001Wf 3323, 150, LPC1Y(I)	POINT 3325, 170, 4FF1Y(I)	11548

9025 FORMAT (24K, 13,5K,F4,C) 4031 JONTEWSE 132990 183630 74= 2344 (4) 133010 00[HT 4335, 194112), MR944(3) 333620 SCTO 9321 BUMITHOS 049F 113631 333663 SALL CLOSEM (LEIT)

PETNIT - "DO YOU HANT TO LIST AMOTHER FORGE? 1 13 05 0 11316: PEAG(13.3002) TUK IF(IUK.60.1FY) GO TO 903: 103370 103283 133593 033103 3050 PPTHT 3351 POST FORMAT(IV. " ACTION COMPLETE "./. 14 " 00 YOU WANT TO END THE PROGRAMMS PEAC(12,9002) IJJ 1F(YJJ.EG.1-Y) GO TO 9900 3 33113 333120 3 131 30 GO TO 1 GALL OPEN (LEIT, 3LI-O) POTNT303 333147 103153 253 373155 201 NT 3025, TYPE 103160 3316° COINT 30 4 113170 AHEOCEFFEFFEF. 333180 252 CALL SETM(LEIT)
252 CALL SETM(LEIT, ASPAY, ASSAY(1))
MEIFETOM(LEIT, 2LEP)
TE(M.EQ. 1003) GO TO 505 333190 003203 IF(24.NE.4RR3Y(3)) GO TO 252 IF(34.E0.(874Y(1)) GO TO 253 103233 233240 15(4H.EQ.C.)GOTO712 505 15(90NIT.50.819GTO132 103251 3.326. 103271 J03280 PRENTERS 393290 PPT VT 311 10331: PPENTICE 333313 DETNITE1 11332 301 FC9M1T(31x,24**,F(31x,141))
PP[NT132,A4 11333: 17334: 103350 103350 103350 103350 PRINTED. 704 FÖRMAT(MAH,207,144) 162 FORMAT(MAH,4X,MRHSHNT=M,413,4MRH) TF(JFL4G. = 7.1) L1=6 113391 L2=L1+4 003400 SESTABAL 933411 DC 31: TUN=L1.L2 I=(3TATS(1,TUN).E3.3.19710 310 1:342: 113431 THEAT (21 = YUMB (1UN * 22)

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M-29

T. A. X.

IF(TUN.ST.511HEAC(2)=MUM3((IUN-5)+22)	10345)
TT(JFLA3.EQ.1.AND.NFRMTS.EQ.C/PPINT3GC	1:346
IF (JFLAG. FO. 1. AND. NPRNTS . FO. C) PRINT 331	10347
IT (UFLAG. EC. 1. AND. NP?MTS. EQ. C) PRINT 301	97348
POINT IMEAN, STATS (1, IUN)	163496
403M12=M00M12+1	11350
313 CONTINUE	13351
IF(420NTS.EC. 1)G0T0123	11352
300 FG9 44 T (?1 / 11 2 (" +"))	193530
361,1361	3 13540
[244(5) #HINS(2)	11355
TECHELAG. ME. 1) PRINT TEEF, PAREFE	113560
00 125 IUN=L1,L2	9 13 5 7 3
'F(STATS(1, [UN), 50. 4) 907C125	10358
IEFF(2)=HIM3(IUN+22)	2 135 90
TF(TUN-GT-5)	313600
PETAT TEFE, STATS (2, TUN)	11361
125 CONTINUE	10362
PRINT 301	103630
70 126 TUN=L1,L2	133641
IF(STATS(1.IUN).50.1) GOTC125	103650
ICT(2) = NUM3(*UN*22)	1:366
IF(IUN-51.5) ICI(2) = MUMB((IUM-5) +22)	133673
PFINT COLUMN (3.1UN)	11363
126 CONTINUE	153690
POINT 331	13371
00 127 TUN=L1,L2	333713
*F(STATS(1, EUN) . EG. 11 GOTG127	733720
[SECT (2) = NUME (IUN#2?)	103730
I (TUM . 37 . 5) I SECT (2) = MUMB ((TUN - 5) *22)	13743
PRINT ISFOT, STATS (4, IUN)	11375
127 CONTINUE	11376
PRINT 301	29377
99TNT 101	17379
IF02(2) #MUM3(1)	11379
TE (JELAS, NE. 1) PRINT TEGE	103300
CO 190 TUM=L1,L2	133613
# (STATS (1, DUN) . EQ. 1) SOTO(4)	13362
TF99(2)=40/46(IUN*22)	11383
[F(:UN-51-5)]FCR(2)=NUM3(([UN-51-22)	11334.3
b61/1	113850
Tag Continue	303360
DETALENG	133870
PRINTEGE	33388
	33369
KNT=1 00 520 T=1.30	10390
00 527 (*1.30 [F(JFLAG.ED.1.4ND.IBL/K.EQ.5)50T0620	133911
	31392
IF()FLAG.50.1)3070140	11398

1. N. W.

IF(JUMPAY(I).	.F0.3190T062C	1139
TPPNT (21=NUM	(1)	1136
PPINT [PPNT.	[.SUMPAY(T)	1:39
#3 ISFAK=0		1:39
TE (KMT. ST. 25)	3010623	1139
00 150 TUN=L		1139
TF(STATS(4+X	IT.IUN).E0.3.)GOT01+1	1 139
I ES NT (2) = NU Y		3348
TE(IUN.GT.51)	[PPNT (7)=NUME ((TUN+5)+22)	3340
THPN=STATS(+	+KNT, IUN) - IFIX (STATS (4+KNT, IUN)/103.) *130.	3545
REMATES [FIX(STATS (++KNT, IUN)/100.)/10.	3340
ORTHIT TORNIT.	[PBN * SEATIN	3340
41 IFISTATS (4+K	MT.IUN).EG.J.)IBLMK=TBLNK+1	3 3 4 0
5J CONTINUE		3340
DRINT 301		1340
IFILELNK. NE.	FIXNT=KHT+1	3340
IF (UFLAG. FO.	L.AND.ERLHK.NE.SIGOTO148	3340
20 CONTINUE		3361
IBLNK=0		3 341
23 JFLAS=JFLAG+	<u> </u>	3 34 1
TELIFLAG. 20.	·	9341
DOI ALSO		3341
32 30 131 TUN#1	. 1 7	3341
DC 131 Inoria		3341
STATS (IMPM. D		3 341
31 CONTINUE		1741
JFL16±0	146	3341
US FORMATIO ".1	72("#"))	1148
TF(4.50.1009		1342
12 (F(APPAY(1).		33.42
P_RCEF=DCEFF		3242
00 614 [=1.3		1542
14 CUMPAY (1)=0.		1342
FO NUNITENUNTT+	•	7342
STATS (1.NUNI		3142
STATS (3.NUNI		1142
STATS (4, MUNI		1142
SHEERS.	1 - 4 - 4 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	
1H0N=4		3343
70 262 [=11,	a c	
		1343
100=1-11	FG. 0.1 GO TO 263	1363
		2743
THPN=THPN+1	DAY/T18080/FDA 1.1	3:43
	24Y(I)*FPS([00,Ju)	1043
	4884Y([]+FPS([]0,JJ)	
	UNIT)=[CO+[FTX(ARG4Y(I)+10.+.031)+100.	7767
र्मात, शवशाः}ना	SIRCINT+, "THEOG LOG MORE MEMPONS THAN STATS ARR	AT ALLUJ:43

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M-31

2 = 3	CUMPAY(T-1))=UMPAY(T-1))+APPAY(T)	2344 <u>1</u> 33442
643	7H2 138 4 (1)	11442
	Uff=931.	33444
	TE (APPAY (5) .GE 1) UEFF#GFFF/ARRAY (E) *103.	03445
	STATS (2. NUNIT) = UEFF	31446
	3TCFF=PTFFF+LEGAY(5)	93447
	SC TO 25?	33448
250	4 CALL CLOSEM(LETT)	334-9
	4 GC TO :	10-50
9900		30451
3909		10452
	F FORMAT (" FFFECTIVENESS OF ".all." = ".F4.3)	11453
3466)] 454.
· · ·	END	10455
	11=[X/1]0	33456: 33457:
	T2=(TX-100*T1)/10	33458
	I3=(IY-1:0+I1-1:+I2)	03459
	TNIM==11 +333	3:460
	00 130 17=1.9	10+61
	INUMPESHIFT (INUMS, a)	11462
	IF(IT.E0.1) INUME=OP(IMUME, I2+333)	37463
	TF(TT.EG.2) INUMS*CP(INUM3, I3+336)	33464
	IF(IT.GT.?)INLME=09(INUME.558)	10465
15	1 COMTINUE	33466.
	<u> </u>	30467
	5-10-M	10463
	EN3	104690

	· · · · · · · · · · · · · · · · · · ·	
		
	•	
		
	** **	

			<u>54, TAPE51=54.AN (WEP=64, 37AT3=64, TAPE6=3</u> TAT3. .CU TPUT=TAPE51.GE=UG=CU "PÚT, TAPE51=64.GA=54.	-33
			PUT.REVIE4=64.74PE62==EVIEW.	3 2
			PE7=LOGOAT, ELEMNT=6 4, "APE99=ELEMN".	- j :
			=64,TAPE3=CLDATA,TAPE70=64.	á
	PE71=512			0.0
<i>,</i> , ,	- 611-3161	1147676-3		36
	ITEFY	SYSTEM F	ILF S	0
	•	J.J.L.	• • • • • • • • • • • • • • • • • • • •	3
				์ วิ
	LGCAL	PR CGRAM		
	NA.1E	NAME	GESCRIPTION	3 (
				3
1.	ANSAFR	TAPES	ANSHER FILE OUTPUT (RUN TYPE = 4)	3 :
2.	CLOATA	TAPE 3	CLASSIFIEG DATA BASE	. 1
3.		TAPE 38	ELEMENT ARRAY FILE USED BY CECISION POINT 1	33
4,	FIRE	TAPELO	CLASSIFIED EXPECTED NO. OF FIFINGS	3
5.	INPUT	TAPE61	GAMER INPUTS	::
_ 6_•_	LOGDAT	TAPET	NOT USED AT THIS TIME	_0 t
7.	QA	TAPESZ	QUESTION/ANSWER CLIFUT FILE CONSINES WITH	Ĵ,
			STATS FILE	୍ପ
8.	REVIEW	TAPESZ	Q/4 INPUT FILE FROM PRECEDING GAME FOR	-
			REVIEW OPTION	
9.	STATS	TAPES	STATISTICAL SUMMARY	3
<u> 10.</u>			TERMINAL CUTPUT FILE	_ 3
11.	TAPE 51	OU TRUT	INTERMEDIATE CUTPUT FILE: PRODUCES ANSWER	3
	710570		FILE, OA FILE, AND TAPESO	- 36
12.	T4PE70		POSTPPCCESSOR SCRATCH FILE SUPT/MERGE SCRATCH FILE	20
13.	TAPE71		STRIV PERGE SCRATCH FILE	-
15.			SCRATCH FILE	- :
<u> </u>	IAPE 77		SCRATCH FILE	3
CO	MON TAIT.	. TO TEMS	AG, ITERRN.IVIS, IMOUNT, MINES, CFAR, FS FRR, FR.	3
			ORD.FHASS.IMAYKV.	- 3
	(2) .FSSF			3
			.66) .SHCTS (55.2) .CKILL(53.2) .JHCTSV (55.2)	:
CU	MUN/ <eed< td=""><td>/JCAY1.XI</td><td>NX(4).ICArd(21).IAFMCR</td><td>ů.</td></eed<>	/JCAY1.XI	NX(4).ICArd(21).IAFMCR	ů.
CO	ATACINO M	/FOS (90, 2	1.CREMS (53, 2), APO 5(12), 0 FOS (6), 1746+ M(21, 2),	:
1 05	N (6.2.2)	PLT (15) .	KEY (171)	3
COI	MON/ONE/	LFIT(35),	A ##AY (90) , 4 \BUF (1024) , 0 (83, 2) , 4G1,	٠.
	ENE . ASEC			
CCI	HON/THO/	(FIT (35).	3PRAY (46), NY BUF (1 024)	
			51,4H(91), _Yauf (1124)	3
Cu,	44 ON VEN VP	CC GR (2,4)	, IC CUNT (8) , ISHOKE (2) , FOSMO (2) , FOSM (2) , ARC (2)	
	MU(2)			J
			AMPPS(2), ACPPS(2)	:
			10UT. KING (2), TOTAL (3, 2, 2), 3EGIN (55, 2), NCI1,	
1 N	ZZ Z, CATLO:	5 (65 • 1 3 • 2),CATSUM(11.2), TYPE(5), aR [3(10.17), ar. 3	:

1 - IJON (150) - I JN - I JOHN - I13(13) - IEPIT	. 300330
	307340
CALL FILEIS (LFIT - 31 LFN - 61 TA SESS - 21 KA - AR AAY - 21 34 - 11 A	111350
1.3) db Z*1057*3f bBd * AAHDED	0.07.56
CALL FILEISIIFIT. SLLFN. SLTAPES . 2LKA, 3 SPAY . 2LF 1. 1LF .	090370
13_BFS.1024.3LFW8.NY9UF)	000750
GALL FILEIS (IMIST. 3LL FN. SLTAPE 3. 2L KA, AM, 2LFM, 1LR.	3 33 393
The same taken a series and the series are the series and the series and the series are the series and the seri	
13L#FS,1024,3LFM9,1Y9UF) CIEMMINAL OUTPUT IS NOW TARESC	33641
CALL DISCON(6LCUTPUT)	330420
REWIND 51	33:430
REWIND 52	335440
I MAX KV≖66	33545
f.	9.30460
KIND(1)="3LUE"	338478
KIND(2)=" REC"	332430
ogint 130	302493
100 FDAMAT("1")	399539
110 FORMAT (1A10)	330513
CALL INIT	~ 000520
:FIRST=0	300530
I XNA Y = "N "	330540
JRUN#3	030553
J2UN 5 = 5	222560
JRUN5=5 PRINT "." GACCA JIFFY MAR GAM	E#103573
WRITE (52,115) DATE (AA), TIME (AA)	0.00580
115 FORMAT (1X, "CATE = ", A1Q, 5X, "TIME = ", 410)	111590
60 TO 150	191601
120 PRINT THE SPECIFY PURPOSE OF THIS RUN"	j:361:
CAL 2 4 7 L	202423
TRUN=XI.4X(1) IF(IRUN-EQ.1.CR.IRUN-EQ.4) WRITE(5.110) IXNAY IF(IRUN-EQ.1) WRITE(5.*) JEUN	202633
IF(IRUN.EG.1.CR.IRUN.EG.4) WRITE(5,110) IXNAY	300540
IF (IRUN. EQ. 1) WRITE (5, 1) IF (IN	333553
IF(IRUN.EQ.4) WRITE(5.9) JRUNS	330560
BACK SPACE 52	232673
· · · · · · · · · · · · · · · · · ·	33069.
#RZIE(72,127) 125 FORMAT(3X,"4") IF(IRUN.GE.1.4NC.IRUN.LE.5)GO TO 190 IF(ARUN.EQ.999)GO TO 133	117593
IF (IRUN. GE. 1. AND. IRUN. LE. 5) GO TO 190	0.36733
IF (_RUN.EQ.999) GO TO 133	333713
CITAT 400	300723
130 PAINT *, " "	322733
PRINT "," ENTER 1 = MAKE MOCIFIED ANSWER FILE (OSSOLETE)"	33274
130 PAINT *," " PRINT *," ENTER 1 = MAKE MODIFIED ANSWER FILE (OSSULFTE)" PRINT *," ENTER 2 = TO GET OUTPUT OF RESULTS INTERACTIVELY" PRINT *," ENTER 3 = GET MODIFIED BAICH OUTPUT (OBSULETE)"	30075
PRINT " ENTER 3 = GET MUDIFIED SAICH DUTPUT (DESULETE)"	33375
PRINT " ENTER 4 = TO GET TER LINAL CLIPUT AND MAKE ANSHER FILE"	1 000770
PRINT +," ENTER 5 = GET BATCH OLTPUT"	232733
GO TO 120	100791
140 CALL FORCE	11130

. . . .

GG FO 190	203813
150 PRINT *, "DU YOU HISH TO SEE INSTRUCTIONS? (YES/NO)"	0 30 4 20
CALL REE DA (INX)	030330
IF(INX.ED."N")GO TO 120	£36945
60 LO 150	J 22 4 5 1
160 IF(IFIRST.GE. U) GO TO 165	3 0 3 8 6 3
PRINT *, "DECISION PCINT 5 ONLY"	300370
GO TO 170	333883
165 CALL RUFA	333490
GC TO 130	203902
170 PRINT ". "ENTER 1 TO LOAG PORCES INTO A SECTOR"	333918
PRINT "" 2 TO CALCULATE RATE-CF-ACVANCE"	110925
PRINT +. " 3 TO ASSESS COMMAT"	203930
PRINT +, " 4 TO APPERTION OST LOSSES TO UMITS"	555945
PRINT +." 5 TO DISPLAY BATTLE STATISTICS"	130953
PRINT ." 6 TO DISPLAY HEAFON ARRAYS"	33096:
PAINT +," 7 TO ADD SRC'S TO TOE FILE"	30 9970
FFINT +." 8 TO RESTART AT A PREVIOUSLY GAMES CI"	222942
PFINT +." 9 TO ENO GAME AND/OR UPLATE MISTORY FILE"	110001
PRINT +." 9 TO END GAME AND/OR UPLATE MISTORY FILE" PRINT +." 10 TO RESET ELEMENT ARRAY FROM INDUSTRILE" PRINT +." 12 TO RESET TERMINAL OUTPUT FILE "	
PRINT TO TO RESE ELEMENT ARRAY PRINT INDU, PLE	4 1 2 3 3 3
PRINT +," 12 TO RESET TERMINAL OUTPUT FILE " 180 FFINT +,"??? D E C I S I O N F D I N " ???"	001313
CALL REECA	331330
INX= XINX (1)	331343
IF(INX.EQ.999)GQ TO 170	331252
IF(INX.GE.1.AND.INX.LE.121GO TO 230	371363
PAINT 190	101373
190 FORMAT (" INCORRECT RESPONSE - TRY AGAIN")	021390
G3 T0 175	251393
200 60 TO (140.160.210.530.470.480.510.520.570.720.730.740).INX	301130
210 IF (IFIRST. EQ. 1) GO TO 22C	C3111:
PRINT 4. "PATE-OF-ADVANCE MUST BE CALCULATED BEFORE ASSESSMENTS	AREJUL121
K ENFERED"K ENFERED"	371130
GG TO 170	0 31140
220 CALL SUPFES	001151
GO TO 340	31150
230 00 240 J=1,2	331173
CO 26J I=63,53	3118
IF(ELMT(1,J).GT.0.)GO TO 250	
240 CONTINUE	231291
Gu 70 260	35121:
250 CALL CANNON	6.122-
260 IF(MINES.NE.1)GO TO 270 CALL MINE	23123
CALL MINE	33124:
270 CG 28G J=1,2	33125
CO 280 1=11,3C	1:125:
IF (ELMT (I, J) . GT . G .) GO TO 290	321272
290 CGNT INUE	23134
are generaled	
	-

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M-35

N. S. S.

	
GO TO 300	391290
298 CALL TANK	231303
300 [F(ELMT(3.1).LE.GOR.ELMT(3.2).LE.g.)GC TO 310	
CALL INFANT	151323
310 CONTINUE	191 730
00 32G J=1.2	. 991340
CO 320 1 = 59, 65	191350
AF(ELMT(I.J).GT.0.)GO TO 330	301363
320 CONTINUE	111370
GO TO 130	311370
330 CAL_ 44AC	301370
GC TO 180	
	101400
340 PRINT 4. TOO YOU WISH TO INCLUDE ANY LOSSES DUE TO TA	
17 ION HENT ?"	371423
CALL REECA(INX)	
IF(INX.EQ."N")GO TO 230	331443
350 CONTINUE	20:45]
J21	331450
36J PRINT 37G.KINC(J)	
310 FJ-148(1 ANT 1444 EC32E);)	1 4 5
CALL RECA(INX)	
TEATURE CO. WILLION OF AND	201520
380 PRINT 4. "ENTER MPN IG. # LOST (1.3 MEN CONE) "	9 9 1 5 1 3
390 CALL REEC4	001522
IHP= XINX (1)	001530
(S) XNIX= 2CJX	301543
IF(IMP.EC.0)GO TO 460	301550
IF (X LOS.GT.EL IT (IHP, J)) 30 TO 423	301563
<u> </u>	101570
ELMT (IMP, J) = ELMT (IMP, J) -XLOS	301583
ALOSS (66 . IMP) = 4LOSS (66, IMP) + IFIX (YLOS - 13.1 - PACK(J)	001590
IF (IMP.LE.12.OR.IMP.GE.66)GO TO 410	111531 111511
CLOS=XLJS*CRENS(INP-12, J)	111621
IS=C	101630
.F(3L05.GT.EL 4T (2,J)) [5 =1	371643
IF (IS.E2.1) FRINT 400.ELYT (Z.J)	121657
400 FORMATIC CHLY ".F4. C." OF CREW FERSONAL FEMALY IN SE	
* TOREW LOSSET NOT SUSTRACTED"/	171677
" TREM PERSONAL UPTO NUMBER IN SECTUR CAN BE REMOVE	
IF(IS.EQ.J)&LYT(2,J)=&LYT(2,J)-CLOS	33169:
IF (IS. EQ. 0) ALUSS (66.2)=	3:173:
* ALOSS (66, 2) + TFIX (CLOS* 10.) *PACK(J)	201713
END AUTO OF CPEN	311720
410 PATHT *, "NEXT "	
GG TO 390 420 PFINT 430.ELMT(IMF, J).IMP,KINC(J)	3:174: ::175:
	1/2

THE ".44." FORCE FOR THIS SECTUR.")
440 PRINT *, "LAST ENTRY IGNORED" 111770 201730 771790 32180 GO TO 41 C 450 PRINT *, "4 LOST HUST BE ENTERED AS A POSITIVE NUMBER." 371310 301320 GO TO 444 460 IF(J.EQ. 2)GO TO 230 ____001830 001840 J=2 G0 T0 360 201650 301860 301870 470 IF (IRUN.EQ.1) PRINT +," SECTUR STATS PRINTED HERE."
IF (I PUN.ME. 1) CALL POST IF (IPUN.EQ.1.CR.IRUN.EQ.3)GO TO 130 POINT 4, "RETRIEVE ANY LOGOAT FILES?" 475 CALL PEEUA (IYN) 001880 301890 301933 201910 IF(IYN.E0. "N") GO TO 180 001920 001930 XCI= ALI PRINT " "ENTER CI NAME-301940 001950 CALL REESB (ACI) CALL 4 -MOUT ACI= XCI 10136. PRINT . "ANOTHER LOGDAT FILE?" 331373 GJ 10 475 121932 151990 132210 480 PRINT ." FORCE STRUCTURES" PRINT -, "ELEMENT SLUE KET" ___102013 00 500 I=1.30 1:2323 IF(ELMT(1,1).EQ.0..ANJ.ELMT(I,2).EQ.0.1GC 75 500
PRINT 490,1.ELMT(I,1).ELMT(I,2)
490 FCRMAT(" ",IZ.F12.0,F4.0) 202130 202351 322251 322270 500 CONFINUE GO TO 190 312093 510 CALL BUIL GC TO 180 302393 302133 332113 BUILD CALL SUBPOUTINE RESTART TO PELOAU PREVIOUS FORCEFILE 3:212: 102130 520 CALL RESTART 332146 132151 GO TO 190 2:216: Ċ 332191 332191 3322231 C 530 CALL ARMOAT 530 CALL APPORT 232213 540 FOR4AT (1A1) 550 FOR4AT (* *,1A1 ::272: 560 FORMATI" INCORRECT -- MUST SE Y OF N-TRY AGAIN ::224.

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M-37

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570 PPINT 596,ACI	10000
580 FORMAT (" HAS THE LAST SECTOR BEEN GAMED FOR CT ",1410,"?")	_ 17225
	35726
CALL REFCA (INX)	11227
IF(INX.EQ."N")GO TO 590	3:229
ispi=0	11229
582 IBRI=IBRI+1	96230
IF(ISRI.GT.10)GO TO 590 PRINT ""ENTER BRIGAGE NAME (END IF CONE)" CALL REEDB(361)	31231
PRINT ", "ENTER BRIGAGE NAME (END IF DONE)"	30232
IF(GRI.E0."ENO")GO TO 590	37234
<u>dkT3 (I3°I, 1) = 3RI</u>	1 12 35
Narig=1371	23236
ISECT=2	10237
ISECT=2 PRINT +, "ENTER SECTOR IN BRIGADE (0 IF DONE)" 504 CALL REEC4 IS=XINX(1)	1 12 34
544 CALL REFCH	22220
TS#XTNX(1)	1124
IF(IS.E0.9)GO TC 582	7.2241
BRIS (LARI, ISECT) = IS	3:242
SECT *ISECT+1	3,242
IF (ISECT.67.10) GG TO 582	37243
	1:244
PRINT . "NEXT"	33245
GU 10 584	10246
590 PRINT 600,4CI	::247
600 FORMAT (" DO YOU WANT CI STATS CUTPUT FOR CI ", A11, "? ")	::243
GALL REECA (IYY)	10249
IF(IYN.EG."4")GQ TO 530	23250
510 IF(IRUN.NE.1)GO 70 620	20251
PRINT "." CUMULATIVE STATS FRINTED HERE."	00252
GO TO 630	1:253
520 Inun=IRun+5	1:254
ASECT=Q.	1:255
CALL POST	1:256
IRUN=IPUN-5	33257
530 PRINT 640, ACI	32253
SAO FORMATO" GO YOU WANT GAME STATS OUTPUT THROUGH CI ".A12."?	") 30253
CALL FEEDA (IYN)	
	11260
IF(IYN.EQ."N")GO TO 679	10251
650 IF(1RUN-1+E-1)GO TO 663	30262
PHINT +, "GAME OUTPUT GENERATED HERE."	1:253
GG TO 673	. :254
660 akun=19un+5	3 2 2 5 5
XCI= ACI	11256
ACI=0.	1:257
CALL POST	1:264
ACI= XCI	1:25 9
IPUN # TRUN -5	33275
670_IF(IPUN.EQ.1)GO TO 690	11271
	- 2/:

The state of

IF(ACI.EQ.O.) PRINT 883
680 FORMAT(" OI NAME NOT SET--HISTORY AND FORCE FILES NOT UPEATED.") 102740 IF (A CI. EO. 3.) GO TO 693 CALL ENCCI 0:275: 392775 392783 ARTCUT CALL 690 IF (IRUN, EQ.1.0R.IRUN, EQ.4) PRINT -. " ""ANSHER"" FILE MAS BEEN DREATD32730 180. -IF (I NUN.EQ. 4) HRITE (5,730) ACI, ASECT, CATE (AA), TIME (AA)
700 FORMAT (1x. "CI ".410.5x. "SECTOR ".F6.0.2 (5x.413)) 17211 202935 202940 713 STOP 1 C 102350 DECISION PUINT 10 132960 302973 302533 720 CONFINUE CALL RESET 302390 GO FO 180 102900 702910 C DECISION POINT 11 302930 032940 302950 Ç. 738 CONTINUE IF (IRUN.EQ. 3. CK. IRUN.EQ. 51GG TO 180 332963 332973 IF (IREVF.NE.0) GO TO 1 50 CALL REVIEW(INX) 122980 : 02990 333300 JECISION PCINT 12 033010 303020 303030 PRINT *, "ENTER OPTION - 1 TO GUNNECT: 2 TO CISCONT ' 740 CONFINUE 113341 223353 INX=XINX(1) 113363 TF(INX.E0.1.02.14x.E0.2) GO TO 150 PFINT 19C GO TO 742 750 GC TO (762, 773) INX 760 CALL CONNEC(53) 303372 323792 323292 323132 GC TO 180 770 CALL CISCON(50) GC TO 130 19311: 1312: 13131 3:314: END M-39

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MANA.

SUPPOUTINE SHOWIT

CLAMMON IA.IC.IR.IENGAG.ITERRN.IVIS.IMCUNT.MINES.CFR.FSFR.FR.,

1 ATIME.IFIRST.DUN, NORD.FMASS.IMAXKV,

2 SF(2).FSSF(2).FACK(2), 003390 003+00 003410 113421 303440 3 EL 4T (80,2), A LOSS (66,66), SHOTS (55, 2), CK (LL (53, 2), SHGTCV (55,2) CGMON/REED/JOAY1, XINX(4), ICAR)(26), IAFMOR

COMON/REVIEW/IGETL, IGETS, IFEV(1, 10), ICEX, IHEYF, IMAX, ISPEED

1 .IJON(1GG), IJN, IJO HN, IL3(13), IECIT 0 1345 223460 333470 GIMENSION IZ(8) 337493 ē I SHO H=1 303500 333513 GC TO 53 ENTRY SHOWNE 103520 S=W CHZI ::353: GO FO 50 :354: :355: ENTRY SHOWS E=WCH2I 10356 50 CONTINUE 233573 REMINE 51 100 READ (51, 140) (113(1), 1=1, 13) IF (EOF (51), (£.0) 60 70 130 3:359: JC 110 J=1,13 11350: JJ=14-IF(213(JJ).EQ." ")GO TO 113 33352 103630 103641 30 105 I=1,9 IZ(I)=[13(I) 13365 135 CONTINUE GC FO 120 103460 110 CONTINUE 23673 120 CUNTINUE 233580 IF (I SHOW . EO. 1) WRITE (50. 140) (I1 I(I) . [= 1. JJ) 223733 GO TO 130 ::371: 130 IF(1SHOW.EQ.2)GO TO 135 132 IEDIT=TEPIT+1 313721 IF(JJ.EQ.1.AND.I13(1).EQ." ") GO TO 134 333741 WRITE(52,150) (113(1), I=1, 4) , LECIT IF(ISHOW.EQ.3) WRITE(50,14J)(I13(I), I=1,JJ) 50 TO 136 3:375: 3:377; 134 HEITE(52.150) IZ, IEDIT IF (ISHOW.EQ. 3) HRETE(50.140) IZ 333790 56 FO 145 33343: 135 CONTINUE 1:391: IF(JJ.EQ.1.4NG.I13(1).ED." ") WRITE(50,140)IZ WPITE(50,143) (113(1),1=1,JJ) 146 [13(1) = [Z(1) [13(2) = [Z(2) 103330 133940 I13(3)=I7(3) 136 CONTINUE 13395

M-40

\$ 18 (S)

PEWIND 51 140 FORMAT (13413) 150 FORMAT (9416, 16) END M-41 - -

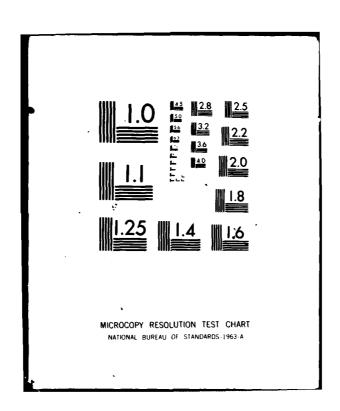
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ARMY COMBINED ARMS STUDIES AND ANALYSIS ACTIVITY FOR-ETC F/G 15/7 CACDA JIFFY III WAR GAME. VOLUME V. PROGRAMMER'S MANUAL.(U) OCT 80 C L PAO CASAA-TR-9-80 NL AD-AU92 783 UNCLASSIFIED 4 - 5



	SUBROUTINE RESTACINX)	::394:
	COMMUN 14,10,19,4 ENGAG, ITERAN, IVIS, INCUNT, MINES, CFPF, FSFFF, FSFFF,	3:3951
1	ATTME. IFIRST, ICUN, NURS, FMASS, IMA MKV.	1,17961
	SF(2),FSSF(2),PACK(2),	1:397:
	8 EL 4T (83, 21, ALOSS (66, 66), SHOTS (55, 2), CKILL (53, 2), SHOTE / (55, 2)	223990
	COMMON/KEED/JCAY1,XINX(4),ICARJ(20),IARMUR	1:3991
	COMMON/PEVIEW/IGET1.IGETS.IREV(1.10), IGEX, IREVE.IMAA, ISPEED	
	. IJON(130),IJN,IJOHN,I13(13),IECIT	234613
_	- 113 du/ 1201 12 Jul 12 due 112 / 121 1 255 1 ;	
<u> </u>	On the state of th	3:4:2:
	CALL SHOHET	204030
	IF (IREVF.EQ. 0)GC TO 12C	
112	CALL PEVIEN(INX)	:3435:
	IF(IREVF.EQ.0)GO TO 120	
	GO TO 130	304070
120	IF(IJCHN.EQ.0)GC TO 125	224390
122	CALL JOHN(INX)	334395
	IF(IJOHN.E3.0)GO °C 125	334131
	GG TO 130	664113
125	READ 24J, INX	13412:
	IF (EOF (61) .NE.Q) CALL SHORT, RETURNS (125)	134131
		.04143
	IF(LNX.EG. "9998")GO TO 112	3415
130	CALL TERM(IRUN, INX), RETURNS (113)	374151
	ENCODE (10, 200, INX) INX	33417
	IF(IRUN.EG.4) WRITE(5.200) INX	334130
140	IF(IKUN. EQ.5) 4RITE(50, 220) INX	:2419
244	WPITE(52,230) INX	334231
	IF (INX.60."Y".OR.INX.EQ."N") RETURN	- 104211
	PFINT 210	114221
		30423
_	GO TO 100	
<u>c</u>		::424;
	ENT&Y REEDS	114250
	CALL SHICKET	_::425:
	IF ([REVF.E9.3)GO TO 170	334273
162	CALL REVIEW(INX)	374297
	IF(IREVF.EQ.4)GO TO 173	334293
	50 10 19:	114311
170	IF(I)044.EQ.0150 TO 175	::4311
172	CALL JOHN(INX)	7.432.
	IF (I JOH4. EQ. 1160 TO 175	11473.
	GC 'O 18:	1 4 3 m.
175	PEA3 240,1NX	: 475
	IF (EOF (51) .NE .S) CALL SHOPT, NETU-NE (175)	76
	IF (INX.E4. "9999") 30 *0 17?	2.34.37
	IF(INX.EQ."9998")50 TO 162	12478
1 40	CALL TEXT (IPUM, INX) ACTURNS (160)	11439
1 30	IF(IRUN.EQ.4) WRITE(5.240) IN X	11442
100	IF (IRUM. EQ.5) WRITE (50.250) INX	77441
140	4F 14 RUM+ CU+7F MC1 (21 70 + 6 70 F4 MA	1

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M-42

WATTE(52, 260) INX	
Neutab	3 34
FORMAT (141)	7 334
FORMAT(1Y. "INCORRECT MUST BE Y OF NTRY AGAIN") FORMAT(1Y, 1A1)	<u> 184</u>
FORMAT (1410)	154
FORMAT (1A10) FORMAT (1X.1A10)	354 374
FOR4AT(3Y,1410)	0 04
END	- 376
	· · · · · · · · · · · · · · · · · · ·
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	SUPPOUTINE REEDL Common IA.IO.IP.LENGAG.ITERRN.IVIS.IMCUNT.MINES.CEDC.ESFAG.FDR.	3349 349
	ATT MF. IFTEST, TRUN, NURD, FMASS, TMAYKY,	3045
- +	SF(2) .FSSF(2) .PACK(2) .	1245
	EL4T(30.2).ALOSS(66.66).SHOTS(55.2).CKILL(53.2).SHOTSV(55.2)	3045
	COMMON/REED/JOAY1.XINX(4),ICAK3(20),IAFPCR	9545
	COMMIGNIZE VIEW / IGET1 . 4GETS , IPEV (1 . 13) . ICEX . IREVE . 144X . ISP & ED	1346
	•IJCN (103) •I JN•IJOHN•I13 (13) •IECIF	3 3 4
•	ATT CH TE SHIP TO THE STORY OF	204
0.0	CALL SHUWIT	774
	IF(IFEVF.EQ.3)GQ TO 130	34
	CALL FE/IEM (INY)	1.64
	IF(IPFVF.EQ.1)GO TO 130	
	GEGUCE (10,150, INY) (ICAMO(II), IT=1.13)	
	10 125 1.411,23	
	ICAGC (II) *14	- 204
	50 TC 143	_ : 4
	IF(IJUM4.E0.1)60 TC 135	1047
	GAL 19m:([NY) IF(IJOM:-EQ:0)GO 70 135	- 3 6
	DECO DE (13, 150, INV) (ICARO (II), II=1, 10)	334
	00 137 II=11,20	1:47
	IGARD(II)=14	3347
	GC TO 14C	3047
	READ 150.ICARD	3047
132	IF (EOF (61) . NE. O) CALL SHO ?T. RETURNS (135)	7 3 3 4 7
	IF (& CARD (1) . NE. "9". OF . ICA FD (2) . NE. "9". CR. ICARD (3) . NE. "9") 50 10 1	
	IF (I CARD (4). EO. "9") GO TO 132	1 14
	IF(ICARD(4).ED."9")GC TO 112	194
7.8	ENGDDE (12,150, INV)(ICAR E(II), IL=1, 10)	224
1.0	CALL FET ITUN, INV), RETURNS (111)	114
	IF (IRUN. EG.4) HRITE (5, 150) ICARO	776
	IF(1RUN. E0.5) ARITE (50.160) ICAFO	
	IGET 1=4	176
	CALL GET & (ICARD, XINX)	754
	WFITE(52.170)ICARO	3 14 1
	e ETURN	1:45
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-324
150	FORMAT (2 0A 1)	034
	FORMAT (1 X, 2 J A 1)	0 :4:
	FORMAT (3 × ,2041)	340
	ENC	174
	■ .10	
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M-44

SUBROUTINE GETAILINE ANNS!	124975
COMMON IA.II. IP (TENGAG. IT FORM . IVIS . INCUM THES; CFOR . FORF . FOR .	914391
1 ATIME : FIGST . THE AD-C . FMASS . TM4 YKV.	_ ;;,,90;
2 SF(2).FSSF(2).PACK(2).	_ 0.950; 0.500;
3 EL17(30.2).ALDSS(66.66).SM0TB(55.2).CMIL_(53.2).SMCTD(55.2)	115.11
COMON/REG/JGAY1,XINX(4).TCAFS(25).TAFRC-	115020
COMMUNITERINIGETIALGETO. IREVILATED. TREX. TRE /F. THAK. ILPES	11573
1 .IJON(103),IJH,IJOHN,II3(17),IEC**	- 5:4:
GINENSION LINE (28). YNUS (4). NGS (10)	5.5
DATA NOS/"J", "1","2","3","4","3","6","7","3","9"/	17515:
XNOS(1)=-1	115171
10U7 *C	235393
IGET S=1	10519:
1GO IGOT = C	11510
X/UM8*3	145111
I MU. Tal	3:512:
IMULT2=10	2 25 130
IFACT*1	135140
INEG = 0	035153
110 00 123 100=1.13	335163
IF (LINE (IGETS), EQ.NOS (ICO)) GO TO 140	305170
120 CONTINUE	335183
IF (LINE(IGETS).EQ.".")GO TO 150	335191
If (LINE(IGETS).EQ."-")GJ TG 130	425291
GO TO 180	0,3521:
130 INE3=1	305223
GC TO 176	_ 105 231
140 XNUM 8= (A:) UM8-INULT-IMULT2+ICC-1)/IMULT	385 243
GO FO 16C	2 05 25C
15C IFACT=1C	005260
I MUL T2=1	125273
160 I YULT=I YULT-IFACT	225252
IGN =1	105290
170 IGETS=13ETS+1	305300
IF(LGET3.LE.721GO TO 113	335313
180 IF(IGGT.NE.1)GO TO 190	3:532:
IOUT=IOUT+1	925333
IF (I NEG. EQ. 1) YNUM 9=-X NUMB	055340
8HUMX = CTUOI) 20/X	0 05 35 3
190 CO 200 ICG=1,4	115361
IGETS = IG ETS +1	30537
IF (IGET) - GT - 72) PETURN	9053AC
IF(LINE(IGETS).EG.",")GO TO 200 IF QINE(IGETS).NE." "160 TO 210	
200 CONTONE	17541.
RETURN 29 F. TELLOUR EG. TOSPALETUIN	11943.
210 IFCIOUT. EQ.IGET11 VETUEN	11544
GC F3 [][15451
<u> </u>	

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T. William

SUBROUTINE JOHN(INY)
COMMON IA, ID, IP, IENGAG, ITERRN, IVIS, INCUNT, MINES, CFPR, FS FPP, FPP, ATIME IFIRST IRUN NOTE FMASS IMAXKY 10549: 10**5**59: 2 SF(2),FSSF(2),PACK(2), 05510 ELYT(80.2). ALOSS (66.66). SHOTS (55.2). CKILL (53.2). SHOTS (35.2) COMMON/REED/JOAY1,XINX(4),ICARD(20),IAFMCA COMMON/REVIEM/IGET1.IGETS.IREV(1.10).IDEX.IREVF._MAX.ISPEED 1 .IJON(1JO).IJN.IJOMN.I13(13),IEPIT 1:5521 1:5531 335540 105550 3:556: IF (EJOHN.EQ. 0) GO TO 140 IFILIM ST . ILIMIGO TO 158 305562 (NLI) NOLI =YKI TUNE TUNE 1 105590 IF(INY.EQ. - -)GO TO 50 135633 IF(INY.20. "9999") GO TO 153 2551 0 15621 <u>IF(IRUN.NE.3.AND.IPLN.NE.5) WAITE(50.130)INY</u> 125633 130 FORMAT(1X,A10) 125643 13565: RETURN Ċ 225567 150 IJOHN=0 PRINT(50.+)"ENG OF 9A*CH MODE" 105670 105680 335690 335703 SHOWME 005710 180 IJN= 1 0 35723 10573. 115741 PRINT(50,*)" ____ ENTER BATCH HOCE ____"
PRINT(50,*) 11575 182 1L14=1L1.**1 15 (1L14:37:93) WRITE(50:193) 1L14 183 FORTAT (10+:13, ". ") 315761 = 77 579 E 73 - E 3 31542. FAINT(50.-) .553. ----ILIM=iLi 4-1 1:545 60 10 182 186 IJON (ILIM) = INX IF(ILIM.EQ. 193) GO TO 417 IF(INX.NE. "9999") GO TO 142 23537 3:544 IFILIM.En.1160 TO 150 11591: 17591. C JOUSLECHECK IJON LIST BEFORE KETURNING 31592) 31593) 410 CALL CKANS (ILIM) GO TO SE 13594.) 596 END

M-46

4.

SUBROUTINE CKANS (ILIM)	1359
COMIGN IA, IJ. IP, IENGAG, ITEPPN, IVIS, IMOUNT, MINES, CFPR, FSFR., FOR,	2659
1 ATIME . IFIPST . IRUN . NORD . F MASS . IMAXKV .	
? SF(2),FSSF(2),PACK(2),	1361
3 ELMT(80,2) .ALOSS(66.66) .SHOTS(55.2) .CKILL(53.2) .SHUTSY(55.2)	9160
COMMENTREED/JOAY1, XINX(4), ICAFO(20), IARMOR	1161
CCMGGN/REVIEW/IGET1.IGET5.IREV(1.10).IDEX.ITEYF.IMAX.ISPEED	1:67
1 .IJCN(1881,IJ,N,IJOHN,II3(13),IECIT	1163
	1:62
OO PRINT(51.0)"REVIEW ANSAERO? "	1050
13 PEAD 251.TMX	15
IF (IN4.50.57). 34.20 X.60.57 160 Tu 120	5:6:
P-11*(5),240)	
ec to tic	1.16.1
20 IF(.NA.EG.****)56 TO 233	
*F(I = I = - GT - D) GC TO 125	::6:
Pr In T (50 , +1 Michem	3361
GC : C 135	3.76.1
25 ISTACY=(ILIM-1)/4+1	
IF(ISTACK.LT.3) ISTACK=9	3361
QQ 133 JJ=1,ISTACK	3851
IF(JJ.GT.ILIM)GC TO 135	: 356 t
J2=JJ+3*IS!ACK	1053
IF(J2.GT.ILIM)J2*ILIM	3763
WALTE(50.130) (J. I JOM (J. J. J. J. J. J. STACK)	3062
33 CONFINUE	3762
30 FORMAT (1x, 4(13, ". ",A10, 3XI)	0063
35 CONFINUE	3262
MRITE(50.140)	
40 FORMAT (1x, "GO? ")	3 6 6 2
50 READ 250, INX	3362
IF(INX.EC."Y".OR.INX.EQ."N")GO TO 160	: 26 8
PRINT (50,240)	106
GU FO 150	376
60 IF(INX.EQ."Y")GO TO 230	3:6:
I CHA NGE ± 0	1063
80 PRINT(SO, *) "INPUT NO., ANSWEP: 7 TO END "	0.35
PRINT(50,*)	0.363
90 READ 260, ICARD	3363
IGET 1=1	2053
CALL GET 4 (ICA RO, XINX)	105
IF(XINX(1).EQ.Q.)GO TO 223	j 15 1
INSC7=xI+x(1)	1054
IF(INSR*.LE.130)G0 TO 210	::5-
F=14T(5).*)"ANSHER NO. 5" 110"	1754
G2 *C 132	1950
16 ICH4 NGE*1	
I.J.E. 23 - J.F. 3 +9	٠ ۽

	E-COSE(11, 260-130N(TNSRT))(ICARD(T)-1=1uets-13e12)	
	<u>= -CO SE(12, 260 - 1 JON(TN SRT))(ICA AD(T) , I = 1 JETS - 1 JETS)</u> TF(INSRT - GT - I LIM)	7.5
	SO TO 195 IF (ICHANGE, VE.3) GG TO 193	
22G 230	IF(LCHANGE.NE.J)GG TC 173 CALL SHOWNE	2 76 7 16
	CALL SHOWE	: 76
		;:6
24G	FORMAT(1x, "INCOPRECTHIST BE Y OR NTRY AGAIN") FORMAT(1A1)	116
<u> 254</u>	FORMAT (20A1)	
	ON THE PROPERTY OF THE PROPERT	3:6
		· · · · · · · · · · · · · · · · · · ·
		<u></u>

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SUBROUTINE REVIEW(INY)
COMMON 14,10,19,1ENGAG, ITERAN, IVIS, INCUNT, MINES, OFPR, #SFPK, FPR, 006540 176590 ATIME . IFIRST . IRUN . NORO . FHASS . THA XKY . J2664: 27661: 2 SF121, FSSF(2), PACK(2), 3 ELYT(80.2). ALOSS (66.66) . SHCTS (55.2) . CKILL (53.2) . SHCTS V (55.2) 336523 CGMMON/PEED/JCAY1, XINX(4), ICARS(20), IARMCR 26630 CGMON/REVIEW/IGET1..GETS.IREV(1.10).ICEX.IREVF.IMAX.ISFEED
1 .IJON(100).IJN.IJOHN.I13(13).IECIT 1:564: 116650 116663 IF (IREVF.NE.0) GO TO 199 336673 GC 73 190 17568C 100 IF(IDEX.GT.IMAX)GO TO 140 106690 110 INY= LION (IDEX) 256732 TOEX=IDEX+1 IF(INV.EQ. " ")GO TO 110 1:671: 026720 IF(INY.EQ. "9996") GO TO 143 3:673: IKEYF*1 55674 1:675: IF (IRUN. NE.3. 4NG . IRUN . 1. F. 5) HE ITE (5 3. 1 33) INY 136 FJRMAT(1X,419) : F7 : E74 : E73 : E 4 (ETJ/). 146 TREVES CALL CONNECTS ?) PRINT (50.4) MENO OF PEVICH MODEM 115. 512 CAL S 1:593 ::414. ::485: ::646: 180 135(=1 230 IMAX=0 GRINT (50 . -) "---- ENTER REVIEW MODE ----" 335373 PRINT(SQ.4) IFINO=3 16381 11549: ISHM AX=1 E6 COFACO ISHMIN=1E6 535913 235 REAJ (62.240) (ICAPC(J).J=1.8).IETIT IF(EOF(62).NE.J)GU TO 395 11602 205930 JC694 240 FORMAT (BALD . IG) 20695: 250 JJ=9 CO 260 J=1.7 10696: 33637: 1-11-1 IF (I CARD (JJ) . EQ . " ") GQ TO 260 :3598: 55 TO 270 136990 260 CONFINUE 207:01 30731. JJ=1 317020 307031 270 CONTINUE IF(JJ.G".21G0 TO 310 DEC:DE(20,280,ICA=D)ICOL1,ICCL4,ICOL14 <u> 36734</u>2 286 FORMAT (43,410,47)

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N. A. A.

IFICOLI.NE." ".OR. ICCL14.NE." ")GO TO 311 1:7:6: IF(IFINO.EQ. 01GO TO 350 307373 IHAK=IHAX+1 107250 IJUN (IPAX)=ICOL4 107390 367130 8 67110 -27:22 HATTE(50,380) IMAX.(ICARD(II), II=1, JJ)
300 FORMAT(1x,13,".", 2A10) G 0 341 316 00 € 10€ 7:4 PRINTIBLE SIGNMANNED TO 195 I= NO=1 TS-MAY=LE6 711. IF (ICAPO (1) .NE. 113(1) .OR. ICAPO (2) .NE. 113(2) .C-. .724; :725; ICARD (3) . NE . I 13 (3) 160 70 314 IFINC=1 CALL HOW (IMOW), RETURNS (LCC) 318 IF (IFING. EQ. 1) WRITE (50, 240) (ICARC (II), II=1, JJ) GC TO 35C 117261 107270 137291 137290 346 IF (IMAX.GE.IASS (IMOM))GO TO 360 237300 IF (IMAX.GE.13:) GO TO 363 037310 350 CONTINUE GO TO 235 1:732: 355 IF (IFIND . NE. 9160 TO 360 007 33: ISHMAX=ISHMIN 107353 REWIND 62 307363 GO TO 235 Č 1:737: 307390 DOUBLECHECK IJON LIST BEFORE FETURNING 207 790 307400 360 CONTINUE IF(IHOM.LT. 0) CALL CONNEC (50) 207419 307420 CALL CYANS (IMAX) 227430 37443 400 CONTINUE BACKSPACE 10746 337473 GO TO 140 END 007490

M-50

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UBROUT IS HOM (INCH) . ISTU-19 (IFEROR)	
ommon is.id. (p. 164647, 1752RM. 1/18. Imount.mimes.cfpr.fsfpr	FRR.
ATEMS.:FIRST, TPUN, NORD, FMASS, IMAXKY.	
Flag (92,2),44,355 (66,36),5d/fl(58,2),0K,U_(53,2),1a,37(53	. ?1
UMEGNYTTEJYJTAY1.XTNY(4),IDAFT(2)),IAFYC UMEGNY-EMITHYTGET1.ITE.S.TNE.(1.17),IDEA-TREVE-1MAX.FSPEE	• • • • • • • • • • • • • • • • • • • •
+13(1(100)+134+13040+114(13)+1511"	· · · · · · · · · · · · · · · · · · ·
T. T. (33.4) "H. H. MANY AND 18 25 -"	
EAD *,IMUM F(IHOM.LT.3) CALL CISCUN(SC)	
F(IHOM.EQ.O) KETUPN TEKROP	36
ETIRN NO	
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SUBROUTINE SMORT, FETURNS (NORM)

CCHOON [4, IO, IP, IENGAG, ITEPPN, IVIS, INCUNT, MINES, CEPP, FSFPE, FPR,

1 ATIME, IFIGST, IRUN, NOPO, FMASS, IMAXKV,

2 SF(2), FSSF(2), PACK(2),

3 ELMT(80,2), ALOSS(66,66), SHOTS(55,2), CKILL(53,2), SHUTSV(55,2) 387560 337670 107530 107590 107790 107710 117720 117730 GALL CONNEC(53)

WRITE(53,103)

100 FCPMAT(1X, "ENC OF AMSWER FILE - INPUT FROM TERMINAL ")

CALL SHOWME
REWIND 51

CALL CONNEC(61)
IF (LRUN.EQ.3.GR.IRUN.EQ.5) IRUN=Z

RETURN NORM 337743 337750 137762 307795 337793 END 117800 M-52

1:792: 1:743: 1:744: SUBROUTINE TERM (IRUN, INX) RETURNS (NGO T) c IF(INX.ME. **OFF**)GO TO 112 FRINT(FO. *) **DISCONNECT ANCHER FILE QUIPUT** . . 7 . 2 GO TO 599 767 720 77: CALL DISCOURS! 721 GU TO 510 210 TF(INY.NE. "ONT) RETURN IF(IRUN.EQ.S) WRITE(50.610) INX 117931 117941 11795: CAL_ CONNEC(59)
PRINT(5),+)"CONNECT ANSHER FILE CUTFUT" 117961 17971 17931 GO TO 515 500 CONFINUE IF (IRUN. EQ. 5) WRITE (50.613) INX 510 CONTINUE 197990 328363 338313 IF (INX.EC. "OFF") INX="OFF2" IF (IRUN. EQ.4. OR. IRUN. EQ. 9) WRITE(5,693) INX HATTE (52.620) THX
CALL SHOWS
RETURN NGUT 118020 108030 138051 138051 108161 108170 Ē 600 FORMAT (1A13) 610 FORMAT (1X, 1A13) 338083 338083 620 FORMAT(3X.1410) M-53

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(XI) EMUN NCITENUE	138440
t=1 X/100	
72=(IX-136=I1) /10	
3=(TX-130+I1-10+I2)	385140
NU45=I1+333	138153
o 101 IT=1.9 .umg=SHIFT(I'UMA.6)	336163 358170
_8/1T.20.1)	
F(IT.67.2) INUMB=UR(2:0:4-3437) F(IT.67.2) INUMB=UR(INUMB, 55B)	
(F(IT.6].2)INT B= JR(INUMB, 55B)	, , ,
OHTINUE	; 14.2; 114.2; 114.2;
SETURN	- 921
ND	: 1922, : 1921: : 1924.
	
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S_AROUTINE CKSTOR(AH1.) THUE)	, · · a
COMMON/ONE/LET (37) ARRAY (31) . MYBUF (1024) . O(80, 2) . 101 .	
	1
COMMON/THEE/IHIS?(35).4H(30), IYBUF(1924)	273 273 228
CALL OPENM (THIST SLIEG SLEE)	
IF (I PUT. GE. 3) 30 TO 123	208
19UT #0	
N134	
0=================================	538
AH(1)=AH1	308
Am(2)=4CI	_308
AH(3) =AS ECT	3 58
AH(b) = 99999,	
CALL GET (THIST, AH, AH(1))	J
	038
IF(IPUT. EQ. J) GC TO 100	308
IF (A H1.EQ. "CI AH") N1=13	368
:F(AH1.HE. "INPUT 36") GO TO 130	129
	2.2.2
IF (4 RF 4Y (5) .GT .AR 74Y (4)) N2=4 KAY (5)	
	538
160 DO 110 1=N1,N2 AM([]=).	338
110 CUNTINUE	108
	118
	138
*** PUT OR REPLO RECORD ON FILE ***	328
128 CONTINUE	308
IF(IPUT.EQ. C) CALL PUT (IHIST, AM, 900, AM (1))	135
IF (IPUT. EQ. 1) CALL REPLC (IMIST, AM, 90 C, AM(1))	30.81
CALL CLOSEM (IHIST)	0.299
IFUT =1	:::::::::::::::::::::::::::::
44	
END	3.181
	¥ **
	
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Subroutine endgi	1:4600
COMMON IA.ID, IP. IENGAG, ITERRN, IVIS, INCUNT, MINES, CEPP, FEFF, FPF,	334613
1 ATIME, IFIRST, IRUN, NORD, FMASS, IMAXKI,	125623
2 SF(21,FSSF(21,PACK(2),	339631
3 ELHT(80.2),ALGSS(66,66),SHOTS(55,2),CK(LL(61,2),SHCTSV(55,2)	118641
COMMON/ONE/LFIT (35).ARRAY (93), MYBUF (1024) (0 (30.2).ACT.	328650
1ASCENE.ASECT	119561
CUMAD (/THA EE/ IHIST (35), 4A (90), IVAUF (1224)	30467
	::AFA:
00 130 1=1.40	: 400
	::37:.
106 CONTINUE	1471
CALL (PENM(LEST, SLT-0.8CF)	177
CAL_ OPFIN(INITT, % I-C, 14:)	277
110 CAL GETNILFIT, AGRAY, ARRAY(1))	11474
4= IF BTOH (LF i T , SLF =)	476
	-7-
4H(:)=4G1	177
AH(2)=4RR4Y(1)	11774
3m(3) +4RR4Y(2)	*979
AH(=)=99939.	***
CAL 357 (54257, Am, AM(1))	7
2F(AH(4).1E.99999ANI.1;FAY(5).EG.401)64 13 151	113421
if (A m (4) , vE. 39999.)GC T. 14:	33483.
IF (ARFAY (5) .EO.ACI) GO TO 120	::894:
ARSAY(5) JAC	1 9 5
IF (ARFAY (4) .G .G.) ARRAY (4) =-1 AR ?AY (4)	108850
CALL REPLC(LFIT.ARPAY.90G.ARFAY(1))	118870
120 AH(6)=ARRAY(4)	108880
AH(5) = AR(5 AY(3)	328492
	178901
AH(I)*ARRAY(I)	11891
130 CONTINUE	015920
CALL PUT (INTST.AM.900.AM(1))	11993:
GO FO 16C	228947
140 AdRAY (5) =ACI	10895:
4 3FAY (4) = AH(4)	109360
00 150 1=6.9°	309970
8RPAY(I) #AH(I)	108981
IF (1.GT.75) ARRAY (1) =0.	123991
150 CONTINUE	339636
CALL GEOLG (LFIT, ARDAY, 930, ARRAY(1))	53951.
150 IF(ARPAY(4).GT.0.)GO TO 113	319021
J=ARRAY(3)	11902.
- man of the control	
IF(J., T.1.03, J.GT.2)GO TO 110	339340
70 170 I=1,50 5: #7:5: N=6: MT:T	009050
ELST (I, J) *ELMT (I, J) *ARRAY (I *1J) 170 CONTINUE	11916:
1/0 Guni Inde	119171

A de Cartie

0

GO TO 110

180 CALL CLOSEN (INIST)

CALL CLOSEN(LEIT)

ASECT=G.

ANI="SLUE STAFF" 119050 119790 209101 209112 ##18-54UE 31m

J#1

196 IPUT#=1

CALL CKSTOR(A41,IPUT)

CG 233 I=1.91

AH(I+13)#EL4*(I,J)

260 CONTINUE

CALL CKSTOP(AH1,IPUT)

IF(1,E2,2)GC TQ 210

J#2 J39130 J39140 J39151 129155 J39171 2719: 1921: 11721: 1922: J=2 8-12 "RED START" GO TO 126 215 RETURN 323 ::025. M-57

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TO THE Y

	Summula E RESTART	
	COMMON INTERIOR SEMBAS, ITERRN. IVIS. IMOUNT. MIMES. CFRE. FOR . TO .	د ۾ ۽
1	ATTHE STILE STUNG ACTO F 4415 . T. AXKI.	:229
	SF(2),FSSF(2),FAGK(2),	::933
	ELAT (30.2),4LOSS (66.66), SHUTS (55.2), CKILL (53.2), SHOTS V (55.2)	33031
	COMON/PEE/JACEV. 19 AICARD (20) - IAF PCF	1:932
	COMMON/CATA/F35(81.2) .CREMS(53.2) .AFOS(12) .CPOS(6) . ITHE- 4(20.2) .	10933
	PSN (6,2,2) ,PLT (15) ,KEY (171)	10934
	COMMON/ONE/LFIT (35), AGRAY (90), MY 2UF (1024), C(90,2), ACI,	_11939
	LASCE NE . A SECT . YSECT	10936
	CUMMON/THO/IFIT(35), BREAY(46), N YBUF(1324)	13937
	CUMON/THREE/INIST(35).AH(90).IY8UF(1G24)	33939
	CCMON/EH/PCCGR(2.4), ICCUNT (a) . ISHUKE (2) . PCSMO(2) . PCSM(2) . 420(2)	13939
	. N4 U(2)	33940
	HOLJ =4CI	12941
130	PRINT ", " ENTER CI PREVIOUSLY SAMED "	33942
	CALL PEECH (ACI)	30943
	IF(ACI.E0. "999")GO TO 343	11944
SE	ARCH FCR CI	11945
	CALL CPENM (IHIST, 3LI-0.1L?)	22946
	AM(1)=ACI	1:947
	AH(%) *90 93 9.	21948
	CALL GET (IHIST, AH, AH(1), 0,10)	33949
	IF (AH(4) .EQ. 909 09.) GO TO 320	21950
_	FOUNDSELECT RESTART OPTICH	33951
	PRINT +, " PELGAD ENTIRE FORCE FILE? "	11952
230	CALL REECA(IALL)	4:353
	IF (I ALL. EQ. "N") GO TO 227	11954
	IF(IALL.EQ."Y")GG TO 160	10955
	PAINT 300	::956
	GJ *0 130	22957
160	CALL OPENM (LFIT, 3LI-0,1LR)	11.954
	APRAY(1) = 0.	11959
1/4	CALL GETN(LFIT, ARRAY, APRAY(1))	10960
	MM=IFETCH(LFIT, 2LFP)	0:951
	IF (NM. EQ. 1008) GO TO 180	11962
	CALL SLTE(LFIT, APRAY(1))	11961
	60 TO 17C	3 3954
444	ARRAY(1) = AH(2)	1965
100		3:368
	A	206
	ARFAY(1) = 4H(5)	136
	AFAY(4)=AH(4)	0.5
	4 - 4 × (5) = 4 H (1)	27
	CJ 198 I=6,98	
	IF (1.47.75) 53 TO 185	97
	48R1Y(I)=AH(I) Gu (I 199	1137

11275 CALL -- -- (LF. -- . AK-14 . 99 - . 1 AA 44 (1))
CALL GET ([47 7] . 44. 44 (1)) ## IFE" CHICATET, SLEEP) 17 1. 1770: IF(M. . C. 100 A) 30 TO 201 IF(AH(1) . NE. ACI) GU TO 200 183431 139815 019925 GO TO 198 C FULL RESTART COMPLETED--CLOSE FILES & EXIT ROUTINE 200 CALL CLOSEN(LETT) 20943: CALL CLOSEM(IHIST) 009940 PRINT 215.ACI 119450 210 FORMAT (" FORCE FILE FESTARTED AT CI ",A16) 209460 239972 AGI=0. IFIRST=0 369983 16999; GO TO 360 119911 209913 SEGIN SECTOR RELOAD 220 PRINT "," ENTER SECTOR # TO RELUAD --119925 CALL REEDS ASESTEXINX(1) 119931 113940 TF(ASECT.GE.G..ANC.ASECT.LE.99999.)GO TO 23)
PRINT +. " INCURRECT-SECTOR #'S ARE FROM 3 THRU 99999 DNLY!" 009951 119960 10997<u>0</u> 11994; GO TO 22 C 230 CALL GPENMILFIT, 3LI-0,1LR) IFLAG=0 109992 240 IF(AH(4) . NE. ASECT) GO TO 260 014300 413316 NEH= 0 ARRY(1) = AH(2) 013023 212230 4=RAY(2) = AH(3) 310049 AFRAY(4) =90909. 310050 112060 GET UNIT'S RECORD FROM EXISTING FORCEFILE IF THEFE 111073 CALL GET (LFIT . AFRAY . ARRAY (1 1) IF (ARRAY (4) . EQ . 90909 .) N EW=1 313385 ARRAY (4) = AH (4) 313393 ARRAY(5) = AH(1) ARRAY(3) = AH(5) DO 250 LI=6.90 AFRAY(II) = AH(II) 310113 110130 11115 250 CONTINUE IF(WEM.EG.0)CALL REPLC(LFIT, AR.AY.933, ARRAY(1))

_F(WEM.EC.1)CALL FUT(LFIT, ARRAY, 933, AFRAY(1))

IFLAG=IFLAG+1 110171 260 CAL GET (LMTST, AM, AM (1 1) M=1FETCH (IMTST, 2LFP) IF (1.20.1035) GO TO 27: 1F (3 H (1) .NE.3C1) GO TO 27: 111197 11171

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M-59

11.23. č 31928. 29G FILT - " PELCAS ANOTHER SECTOR? "

CALL RESTACTIVES

IF CLYN.EQ. "Y" 190 TO 318

IF CLYN.NE. "N" 1 PRINT 300

300 FORMAT(" INCORRECT ENTRY - TRY AGAIN")

IF (LYN.NE. "N") GO TO 290 516295 31333 313310 313320 312333 312343 913353 313363 CALL CLOSE 4(IMIST) ACI=0. GO FO 360 310 An(1)=ACI CALL GET (IHEST, AH, AH(1), 0, 10) 31037: 01134; 71339; 00 10 220 013430 320 CALL CLOSEM(IMIST)

PRINT 33C.ACI

330 FORMAT(" CI ",A10." NOT FOUND ON HISTORY FILE."/) 31341: 111420 116430 31644 013453 340 CALL SHOWEI
ACTS HOLD

350 PRINT ** ASORT RESTART OPTION?
CALL REEDA (IYN)
IF (IYN.E7. "Y") GO TO 350 313460 313470 313480 IF(IYN.EG. "N")GO TO 130 313493 PRINT 30 8 GO FO 35 C 113501 313513 310520 313530 360 PETURN E1.0 M-60

Carlo Carlo

T. A.

SUBROUTINE SHOWCI COMMON LA,TO, IP, LENGA G. ITERRN, IVIS, IMCUNT, MINES, OFP F, FS FB-, FP-,	_ <u>]:)55</u> :1,56
1 ATIME. FIRST JIRUN, NO-3. FMASS. JMA XKV.	57
2 SF(2), FSF(2), PACK(2),	11159
3 ELY (83.2). ALOST (66.66). AHOTT (55.2). CKILL (53.2). SHOTTV (55.2)	11159
COMMUNIZATA/FP\$(50.2), CREMS(53.2). APOS(12), CPOS(6), ITHE M(20.2),	21269
1 + 34 (6, 2, 2), P. 7 (15), KEY (171)	
CUMMONYUNEZLEIT (35).A FAY (95). TY SUF (1324).C (61.2).ACL. 1ABCENE.ALECT.YAFCT	11152
CUMSDN/749/°FIT (35) .5. 34 Y (46) .WY -UF (1924)	1:54
COMOLIZEH-EEZZMEET (15) . 4H(9) Y-MF(1)24)	_ 1 5
CUMMUNIZEN/PCD GR (2.4). ICOUNT (9) . ISMO ME (7) . FCSMO (2) .FCSSM(2) . ARD (2)	11:55
1 .11411(2)	1:57
IF(4C1.En. "999")60 TC 111	31349
TAG PRINT S. C. YUU JAMI A LIST OF CITS ON FILE? " CAUL REEDA (IYM)	-11.59
IF(IYN.EQ."N")30 TO 157	
110 PAINT "." CI'S ON HISTORY FILE "	31:72
AKE P=90909.	31173
CAL OPENA(IMIST, JLI-0, 113)	91374
120 CALL GETN (INIST AM AN(1))	11075
M=IFETCH (IMIST, 2LF F)	31375
IF(M.EQ.1603)60 TO 148 IF(AM(1).EQ.AKEEP.OR.AM(1).EQ."CI LOSSES".OR.AM(1).EQ."CI 4MMO")	G1077
*GC TO 120	_ 31379
AKEEP=AH(1)	21600
PRINT 130, AKEEP	11:31
130 FURNAT (" ",22x,410)	31042
G0 70 120	31033
140 GAL. CLOSEM(IHIST) 150 RETURN	_31095
170 FORMAT (" INCORRECT ENTRY TRY AGAIN!")	113A6
180 FOPMAT (1 A1)	31347
190 FJPYAT (1x, 1A1)	31585
<u>ENO</u>	11099
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· M-61	
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Time.

	SUBROUTINE INIT	21591
	COMMON 14,12, IP, IENGAG, ITERRN, IVIT, INCUNT, MINES, CEDG, F3FAR, FPR,	11692
	ATIME . IFIRST . IFUN , NUPC . FMASS . IMAXKY .	31393
	2 \$F(2) .F\$\$F(2) .PACK(2).	31094
	5 ELYT(80,2), ALOSS (66,66), SHOTS (55,2), CKILL(53,2), SHCTSV (55,2)	11195
	COMMON/DATA/FPS(80.2).CREHS(93.2).APOS(12).DHOS(6).ITHE=H(21.2).	21396
1	PSV (6,2,2), PLT (15), KEY (171)	01097
	CALL OPENS (3,KEY, 171,0)	21394
	CALL REACHS(3.FPS.160.34)	21599
	CO 3999 :=31,160	31137
	FP3(I) =FP5(I) *2	31131
999	CONT INUE	311:2
	CALL CLOSHS(3)	_31133
	DATA ((C.EMS (I.J), L=1,53), J=1,2)/	71134
1	2., 2., 6.,1.,2.,2.,1.,2.,	_ ; 11 : 5
	2 2.,2.,2.,2.,2.,2.,3.,2.,2.,0	11116
	3 3., 3., 4.,	<u> 11.17</u>
	6 2 9 4 5 7 7 9 9 1 4 1	01124
		14.39
	5 2.,2.,2.,3.,2.,	21112
		31111
	2 20,3.,3.,2.,2.,2.,2.,2.,3.,3.,3.,	: !112
	3 + 6 7 5 2 2 1 1 1 1	
	1.,2.,5.,5.,5.,2.,11.,1.,2.,4.,	11114
	5 4	
(5 2.,2.,2.,4.,5./	11115
	GA*A (A=05(1),1=1,12)/11.5.?	1111
	DAIA (3PUS(I),I=1,61/15,21.5.1.2/	31445
	PATA (((=\$\(\), \\), \\ \ \\\\\\\\\\\\\\\\\\\\	112
	1 2 - 67 - 1 5 5 - 5 - 1 - 6 7 - 1 - 7 1 1 - 7 7 . CATA ((THE - M(I, J) - I = 1 - 2) - J = 1 - 2) / 5 1 1 - 2 - 1 - 3 - 2 - 1 0 1 - 5 - 1 - 2 - 3 - 1 - 2 - 2 - 2 -	
	1 341/	1122
	2-1/	11123
	MATERIEL LOSS ES PER INFAMIRY MAN LOST.	31124
	CATA (PLT (K) -K=1,15) /- 017 - 01 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 -	
	1 . 25 02/	11:25
	• 1394.027	11127
	CO 100 1*1,55	31124
	CO 100 J=1.2	21129
	SMOT SV (I.J) =0 .	11139
100	SMO7 5 (I, J) = q.	01131
	PACK(1)=130102.	51132
	PACK (2)=1.	11133
	RETURN	311 34
	ENO	11139
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FUNCTION INGEXS((1.12.13.14.15.11.12.13.14) THIS FUNCTION RETURNS THE 1 CIMENSIONS SIMULATING ONE OF 5 DIMENSIONS IT IS ASSUMED THE DATA IS STOREG BY COLUMNS AND YOU ARE SEEKING ELEMENT (11.12.13.14.15) OF ARRAY (11.12.13.14.1) INDEXS=(1+(11-1+\1-(12-1+\2-(13-1+\2-(14-1+\4-(15-1))))) PETURN ENO
THIS FUNCTION RETURNS THE 1 DIMENSIONAL ELEMENT MUMBER OF SIMULATING DNE OF 5 DIMENSIONS IT IS ASSUMED THE DATA IS STOREG BY COLUMNS AND YOU ARE SEEKING ELEMENT (II.IZ.IZ.IZ.I4.IS) OF ARRAY (LI.LZ.LZ.L4.N) INDEXS=(1+(II-1+L1*(IZ-1+L2*(IZ-1+L2*(I4-1+L4*(IS-1))))) DETURN END
THIS FUNCTION RETURNS THE 1 DIMENSIONAL ELEMENT MUMBER OF SOME SIMULATING ONE OF SOME SIDES BY COLUMNS AND YOU ARE SEEKING ELEMENT (II.IZ.IZ.IZ.IZ.IZ.IZ.IZ.IZ.IZ.IZ.IZ.IZ.I
SINULATING ONE OF 5 DIMENSIONS IT IS ASSUMED THE DATA IS STORED BY COLUMNS AND YOU ARE SERVING ELEMENT (II. IZ. IZ. I4. I5) OF ARRAY (LI.LZ. LZ. L4. N) INDEXS=(1+(I1-1+L1*(IZ-1+LZ*(IZ-1+L I*(I4-1+L4*(IS-1))))) PETURN END
SINULATING ONE OF 5 DIMENSIONS IT IS ASSUMED THE DATA IS STORED BY COLUMNS AND YOU ARE SERVING ELEMENT (II. IZ. IZ. I4. I5) OF ARRAY (LI.LZ. LZ. L4. N) INDEXS=(1+(I1-1+L1*(IZ-1+LZ*(IZ-1+L I*(I4-1+L4*(IS-1))))) PETURN END
IT IS ASSUMED THE DATA IS STORED BY COLUMNS AND YOU ARE SEEKING ELEMENT (II.IZ.I3.14.15) OF ARRAY (LI.LZ.L3.L4.N) INDEX5=(1+(I1-1+L1*(I2-1+L2*(I3-1+L3*(I4-1+L4*(I5-1))))) PETURN ENO
ELEMENT (I1,I2,I3,I4,I5) OF ARRAY (L1,L2,L3,L4,N) INDEX5=(1+(I1-1+L1=(I2-1+L2+(I3-1+L2+(I4-1+L4+(I5-1))))) PETURN ENO
PETURN ENO
PETURN ENO
ENO

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SURROUTINE LOSS(ISTART, ISTOP, KSTART, KSTGP, INX)
COMMON LA.IO. IP. LENGAG, ITERRN. IVIS. INCUNT. HINES, CFPE, ESERG, FPG. 311486 311498 ATTHE IFTAST . IRUN . NOFO . FMASS . IMAXKY . 311500 3F(2) .FSSF (2) .PACK(2) . 111513 ELTT(30.2).ALOSS(66.66).SHOTS(55.2).CKILL(57.2).SHCTSV(55.2)
COMMON/DATA/FPS(30.2).GREHS(53.2).APOS(12).JPOS(6).ITHE M(21.2). 11152 UUNTUNIUNIANEES (80.2).CREMS (53.2).APOS(12).DPGS(6).ITHE M(21.2)

1 PSN(6.2.2).PLT(15).KEY (171)

IF (INX.60.MYESM)GO TO 140

IF (INX.60.MYOM)GO TO 190

100 PRINT +.MOO YOU NISH TO SURTHACT LOSSES FROM FORCE STRUCTURE; ?M

CALL RESOA(INY)

TEXTURE FOR COMMON 111531 111560 :11550 11.54) 11.571 11.54 IF(INX.FQ. "N")GU TO 190 .1159 160 00 17. J=1.2 00 17. J=1.5 00 17. J=1.5TART.ISTOP 10 17. K=KSTA-T.KSTOP IF(J.E2.2) 97 TO 150 AKILL=ALOSS(I.K)/PACK(I)/17. 1151 111621 111611 11164. GC TO 150

150 AKILL=(ALGSS(I,K)-IFLY(ALGSS(I,K)/PAGK(1))+PAGK(1))/17.

160 IF(AKILL-(E.J.)GO TO 17?

ELMT(K,J)=ELMT(K,J)-AKILL

IF(ELMT(K,J)-LT.G.)ELMT(K,J)=G. 111553 11:56 011540 11691 311753 311713 311723 CONFINUE ZEFC JUT 4 MMO ACCUMULATOR CO 180 I = 1,2 CO 180 J = 1,55 111730 SHOTS(J, []=SHCTS(J, []+SHOTSV(J, [) 0.0=(J, [)+STOHS 311740 11175: 1176: 180 CONTINUE 311773 INTERPOLATION OF THE POLICY OF 011745 11793 311300 311413 CO 210 I=1,2 CO 210 J=1,55 311823 SHOTSV(J.I)=0.0 . 11340 111951 INX="NO" 1196: 220 PETURN 31137: END

M-64

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J

SUBROUTINE CISPLAY 311900 DIMENSION CIL (5) , ICOCE(10) , REMAIN(10) , XLOST(10) 311913 COMMON 14.13.17.1ENGAG. ITERRN. IVIS. INGUNT. ML. NES. CFPF. FSFFF. FPF. 111920 1 ATTME. IFTRST, IRUN. NOPO. FMASS, IMAXKY, 31193: SF(2) .FSSF(2) .PACK(2). 311343 3 EL4T(40,2),ALOSS(66,66),SHOTS(55,2),CKILL(53,2),SHOTSV(55,2)
COMMON/OATA/FPS(80,2),CREMS(53,2),APOS(12),SPOS(6),ITHEIM(20,2), 311750 111963 11197: 1 PSN (5.2.2) . PLT (15) , KEY (193) :1195 COMMON/ONE/LF_T (35) .ARRAY (90) .479UF (1324) .C(80.2) .ACT. 1ASCENE . A SECT 1199: DATA (CIL (I) .I = 1.5)/100J., 5. .4..2.5.1./ 18 FORMAT (1A10) 18 FORMAT (" ".1A10) 112:10 112121 112:3. 142:4: 112:5: 112:6: . c PRINT- "ENTER PAREN" OF UNIT(S) TO BE DISPLAYED -" CALL REECH (PARENT) TERS=0. 112373 UEFF #1. 11213 CALL OPENM (LEST, 3L2-0,123) 112393 A - 74 Y (1) =P4-E'IT 312163 312113 4 -4 × (7) = 99993. CALL GET (LETT.ATRAY.AFTAY(1).0.13)
IF (ARF AY (7).HE.99999.)GOTC112 :12:3: FRINTSOS.PAHENT 312141 11215: 1215 110 PRINT - "ENTER UNIT IC (35 ALL) -"
CALL -EXIB(UNIT) :1217: 312130 1217: 11220: c IFLAG=? 113 IF(JNIT.EQ."4LL")GCT0129 1221: IF (UNLT. EQ.ARRAY (2)) GCT0120 31222: 31223: 112 CALL GETN(LFIT, AGRAY, ARRAY(1))
H=IFETCH(LFIT, 2LFP) 112240 IF (M. 22. 1009) GOTO200 :1225: IF (ARRAY (1) . NE. PAKENT) GOTOZGO 312260 GOT3 113 C_ 21228: 120 J=44RAY(3) 11229: :1230: :1231: TEPS=TEPS+ARRAY(6) 112 320 00 150 Ist.90 AR=ARRAY(I+10)-IFIX(ARRAY(I+16)/130000.)+100030. 012330 IF (AR.LE. 0.) GOT 0150 :1234: UEFF =UEFF +AR+ FPS (I. J) 11235: 150 CONTINUE G0T3112 112371

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M-65

. 112387 ZGG CALL CLOSEN(LFIT)

IF (IFPS.LE.G.) GOTO 100

UEFF=UEFF/TFPS-100. 212390 312400 31241. 312423 PRINTEDS . PARENT . UEFF 205 FORNAT(" ".//.1x.a10.2x."EFF=".F4.0./.1x.67("-"))
CALL OPENM(LFIT.3LI-0.1LR) 312430 312443 ARPAY(1) = PARENT 012450 ARRAY(7) =99999.

CALL GET (LFIT , ARRAY, ARRAY(1) , 0 - 1 C)

IF (ARRAY (7) . NE. 99999 . 1 GOTOL 55 31246: 31247: 312480 212490 PRINT305, PARENT 312531 312510 GOT) 500 C 155 IFL1G=0 160 IF (UNLT.EQ."ALL") GO*0263 J12520 312530 IF (UNIT. EQ. ARRAY(2) 100702 EQ 170 CAL GETN (LFIT. ARRAY, ARRAY(1)) MRIFETCH (LFIT. 2LFR) IF (M. EQ. 1 COB) GOTC 5 GD 1254 11255 1125A1 712571 1125A: 11259: IF (ARMAY (1) . NE. PARENT) GOTOSGO CCT3103 11250 :12-1 260 J=A-+ 1Y(3) UEFF#1. 20 210 _=1.43 11253 8-44-44 (T+13) -1-11 (4-44 (1+13)/13333.) -133333. IF (4-4-15.0-) GOTOZIJ 1256. 112550 11EFE =11EFE+4:+F05([,]) 1237 218 CONTINE 11253. 112591 IF(4 #) AY (6) . GT . 0 .) G CT . Z11 GUTD 212 211 UFFF #UEFF/ARFAY(A)=100. 212 PRINT215,ARRAY(2).UEFF 215 FORMAT("0",A10,2X,"EFF=",F4.0,/.1X,67(".")) 21,272: 12717 112720 312730 112743 :1275: INC= 0 00 220 1=1.60 IF (ARRAY (I+10).E0.0.) G070225 21276: 1277 INC= INC+1 31274: ICODE(INC) #I :1279: XLOST(INC) = IFIX(ARRAY(3+10)/109010.)/16. PEMAIN(INC) = ARRAY(1+10) - XLOST(INC) + 10000000. 312933 312913 112923 IF (INC.LT.9)GOTO 220 212330 230 PRINT235, (ICOCE(INX), INX=1, INC)
235 FORMAT(" ITEM CODE", 13(3X, 12, 14))

M-66

		
	PRINTZ4C . (REMAIN(INX) . INX #1 . INC)	11206
260	FORMAT(" # REMAIN ", 10F6. 1)	
240	PRINT245 (XLCST(INX) INX=1 INC)	
24.5	FORMAT(" # LOST ",10(1X,F5.1))	112997
647	PRINT255	312393
255	FORMAT (" ",67 ("."))	11298
6 27		312913
	INC= 0	
226	IFLAG=1	J12933
	IF (INC. NE. U. AND. I.EQ. 801GOTQ230	
550	CONTINUE	312950
		212960
	GOTO 179	11297
<u> </u>	CALL CLOSEM(LFIT)	
	G0T3 603	712991
300	PRINT305.UNIT	
305	FORMAT(" UNIT ".AIG," HAS NOT FOUND")	013010
		24222
600	KETJRN	243032
	ENO	213141
	<u> </u>	
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_		SUBLAUTINE PESET	117.5
		COMMON IA, 10. TH. LENGAG. IT ERKIN IVIS . I MOUNT, MIMPS. OF PR. FSPP: , FF	113171
_		ATIME, IFITET, IRUN, NOTO, FMASS, IMAXKV.	317737
		SF(21, = SSF(21, PACK(21,	313393
_		1 E_1T(30,2).44388(65,66).5HCT1(55.2).CK1LL(53,2).5HUTTV(55,2)	<u> </u>
		COMMON/HEED/JOAY1, XINX(4), ICART (22), IARTUR	013111
		63M4C%/UNE/LEIT(35), Ascay (93) + 198F(1224), C(8), 21, ACI,	<u> </u>
	1	LASCENE, AGECT, YSECT	31313.
		CCMYUN/EH/9606A 12.41. ISSU IT (8), ISAGKE (2), FG_MG (2), FGSIM (2), 4-3 (2)	113145
_	1	L , 'MU (2)	113150
		SIME NO ION NGARO (3)	313150
;			313173
		PHINT . TOO YOU WANT TO SAVE THE ELEMENT AFRAY?"	313190
_		CALL REECA(INY)	J13190
		IF (INX.EC. "N") GO TO 130	313203
_		MF X CE = "FORCE"	113213
		WRITE (98,130) MFOPCE, ACI, ASECT	113220
_	160	FORMAF(1x, A1G, 2x, A1G, 2x, FA, G)	313230
		DO 126 I=1,40	113240
_		IF(ELHT(1,1).EQ.0ANJ.ELYT(1,2).EQ.0.1GC TO 120	: 13250
		WKITE (98,110) I.ELMT (I,1), ELMT (I,2)	013260
-	110	FORMAT (3X, 12, F12, J. F9.0)	113270
		CONFINUE	:13230
_		MFORCE ="END"	J13290
		WRITE (98, 100) #FORCE	31330:
-		W.17 C 170 / 2007 / O.O.C.	713313
•	. 70	PAINT +, "DO YOU WANT TO RESET ELEMENT ARRAY?"	313323
-	1 30	CALL SECTA (INX)	113333
		IF(INX.EQ."N")GO TO 200	313340
_			313351
		00 140 I=1,65	
_	4.6		113365
	140	CONTINUE	113370
_		PRINT -, "ENTER PREVIOUS CI - "	v 13350
		CALL REEDS (PCI)	313393
_		PRINT -, "ENTER PREVIOUS SECTOR - "	213433
		CALL REECH	113413
_		PSETT*XINX(1)	.:13427
		REWIND 34	313433
_	150	READ 198, 1001 MFORCE, ACIT, ASECT	<u> </u>
		IF (EOF (98) . VE. 2)GC TO 190	113451
_		IF (MFORCE.NE. "FORCE") GO TO 150	1346
		IF(ACIT:NE. PCIFGO TO 150	11347
_		IFIASECTI.NE.PSECTIGO TO 150	313497
		REA3 (98, 170) NCARD	11343
_	170	FORMAT (1 x , 3410)	113500
_		IF(EOF(94).WE.C)GO TO 200	113513
_		IF(NCARD(1).EQ. TENOT)GO TO ZOC	1525
		JECJUE (30.130,NCA RD) I.ELMT([.1),ELMT([.2)	11357

11354] 11355] 150 FURMAT (24.12.512.3.59.3) GO TO 16:2 198 PRINT - "DI AND SECTOR GO TO 13:2 NO FLUNC ON ELENNY FILE! 1358 200 COM INUE CG 217 1=1,3 ICOUNT(I)=1 1359. 313613 210 CONTINUE 213525 PMINT -. "EW UNITS PER TYPES : 1 EACH TYPE" NHU(1) = NHU(2) = 1 113631 1354; PRINT ", "ENTER EN TYPE (1-8), AMO UNITS/TYPE; OR 0,0" 250 CALL REFOL 313650 11366. 11367. I=XINX(1) I=X[NX(I)
IF(I_LT_1_QR_1_GT_8)GO TO 260
ICOUNT(I)=X[NX(2)
PRINI = ...MEXT - ...
GO FO 250
260 GRINT = ...MENTER FORCE AND MMU/FORCE: QR 0.2...
270 CALL REECA 13650 11369: 113711 11372: 313730 I=X[NX(1) 113747 013751 013761 013771 013771 IF(I LT.1.0R.I.GT.2)PETURN
NHU(I) #XINX(2)
PRINT +, "NEXT - "
GO TO 27G
22G CONTINUE 313790 END 213301 M-69

0

O

	SUBPOUTINE SUPPES	31342
	COMMON IA. ID. IP, IENGAG, ITERAN, IVIS, IMCUPT, AINES, CFPF, FSFF-, F7F.	21353
	1 ATIME.IFIRST.IPUN.NO.2D.F.48SS.IMAXKV.	01394
	2 SF(2),FSSF(2),PAGK(2),	11355
	3 ELMT (80.2) ALOSS (66.66) SHCTS (55.2) CKILL (53.2) SHCTS (55.2)	:1396
	COMMON/DATA/FPS (80,2), CREMS (53,2), A FOS (12), CPUS (6), ITHE- M (27,2),	
	1 PSN (6.2,2) .PLT (15) . KEY (171)	11394
	OIMENSION FACT(12,6,2),STALE(11)	11389
C	FACT (12.6.2) AND STALE(11) AFE USES AS	71390
5	FACT (11.6.2) AND STALE(10)	21371.
<u>c</u>	"8." JELON IS NOT USED	11.35
	DATA (STALE(I).I=1.11)/.6.11.5,22.5.3.5.5.456./	21 393
	GATA (((FACT(I, J,K),K=1,2),J=1,6),I=1,12)/	1394
	12.1, 8.3, 1.2, 7.4, .4, 3.7, 1.4, ?2.5, 2.7, 15. 6, 3.0, 11.1, 3.3, 3. 9. 1. 3, 4.4.	.::375
	21.2.2.2.1.4.14.3.3.6.9.3.5.9.6.6.4.5.3.2.2.7.3.1.1.8.1.5.2.4.9.3.3.4	·11396.
	3.4,5,5,4,8,4,5,4,5,4,5,3,2,2,5,6,2,4,2,4,1,2,3,6,6,1,5,1,5,1,5,1,5,1,5,1,5,1,5,1,5,1,5	
	<u>4,2,5,4,2,2,,,2,6,1,0,3,5,7,2,6,9,4,8,6,9,3,5,5,5,2,3,5,1,1,9,3,4,,</u>	11333
	59,3.6,6.9,7.3,4.5,7.3.2.7,7.3.2.1.5.9,1.7.3.2.,4.5,5.5.5.3.9,3,	31799
	5.7,2.6,8.1,2.1,6.6,1.6,4.4,.0.5.0,6.3,9.5,4.2,4.6,2.4.9.1,1.7.3.1	
	71.4.5.4.7.6.4.9.4.12.3.3.6.11.4.2.1.11.7.1.6.9.9.9.1.3.5.27.6.4.9	
•	8.3,13.5,3.5,12.6,2.0,14.4,1.5,12.0,1.2,3.3,.6,9.1.5,0.13.1.7.3,16.	
·	90.1.9/	11403
2	MULTIPLIES SUPPRESSION PACTOR APRAY FUR SENSITIVITY FUNS	316160
	00 90 12:1:4	31435
	FACT (N) = FACT (N) +3	314050
90	CONTINUE	31407
;	55H 2.16C	314343
	Do 106 1=1,10	31459
	IF(FPR. E.STALE(I))50 TO 110	31413
4.6	O CONTINUE	11411
Lu		11412
-14	1=11 0 SF(IA)=FACT(I.IENGAG.2)/100.	31413
	SF(ID) =FACT (I.TENGAG,1)/13C.	1414
	00 t 20 T=1,10	31415
	IF(FSFPD.LE.STALE(I))GO TO 130	1415
12	O CONTINUE	31417
	Isti	11415
C	MAKES PS SUP FACTOR INDEP OF THE SITUATION	314190
Ç		71423
13	0 FSSF(IA) =FACT(I,1,2)/100.	11421
	FSSF (IO) =FACT (I,1,1)/10J.	C1422.
	PRINT +, "SF(IA) .SF(IC)", SF(IA) .SF(IC)	114233
	PRINT +, "FSSF(IA) , FSSF(IQ)" , FSSF(IA) , FSSF(IQ)	11424
	END	1425

SUSPOUTINE ROFA 11427: COMMON IA.10.1P. IENGAG. ITERRN. IVIS. IMUUNT. MINES. CFPF, FSFF-, FD2. ATIME.IFIRST. IPUN. NORG. FMASS, IMAKKY. 31429E 14290 2 SF(2),FSSF(2).PACK(2). 314330 FLAT (40.21. ALOSS (66.66). SHOT S (55.2).CKILL (53.2). SHOTC V (55.2) 14 31 COMMON/REED/JOAY1.XINX(4), ICARD(23), IARMGR 114320 COMMON/JATA/FPS(A0,2).CREMS(53,2).AFDS(12).2PDS(6).ITHE:1(23,2). 114330 1 PSN (5.2.2) . PLT (15) . K EY (171) COMMON/ONE/LEIT (35) . ARRAY (90) . MY GUE (1 (24) . 0 (50, 2) . 4CI. 914351 1 ASCENE, ASECT, YSECT COMMON/; MREE/, MIST(35), 14(90), IYAUF(1024) 114361 COMMON/EW/PCDGR (2,4), ICOUNT (8), IS "OKE (2), FCS "U (2), PCS "(2), ACC (2) 114380 N1U(2) COMMON/FFSC/A UFPS(2), AMFPS(2), 1CFPS(2) 1443: OINENSION STALE(11) .FATE(1440).CF 95 (2) .FEF93(2) .TF95(2) DIMENSION PCH (2), PC #5 (2), P(2), ITHEP # (20, 2) 1442 SATA (PCM(I). 1=1.2)/1..1./ 14430 CATA (PCFS(I), I=1,2)/1..1./ GATA (STALE(I), I=1,11)/.3.1..1.5,2..2.5.3..3.5.4..5..6..4./ 11444 1465 11446: CATA (RATE(I) . I=1, 2941/ :1447: 3. . 9. . . 4 . . 4 . 1 . 3 . 1 . 4 . 1 . 5 . 1 . 7 . 1 . 8 . 2 . 7 . 2 . 1 . 2 . 6 . 3 2 . . 3 . . 7 . . 5 . . 7 . . 5 . . 1 . 1 4 5 3 . 7.5,1.6.1.2.1.3,1.4,1.6,1.7,1.9,2.3,2.,1.,.1,.1,.3,.4,.5,.7,.3,.4,.5,.7 <u>4,0,0,0,,1,,2,,6,,6,,5,,7,,d,,3,,4,,5,,,,,,,4,,4,,9,1,7,,9,1,7,1,3,1457</u>? 9,1,6,1,6,2,1,0,,0,,,1,,,1,,3,,3,,4,,5,,7,,7,,7,,6,1,,7,,1,,1,,1,,1,,1,,1,,5,,7,1456? 30 --- 2 - · 6 - · 6 - · 9 - 1 - 7 - 1 - 0 - 1 - 2 - 1 - 3 - 1 - 3 - 1 - 3 - 1 - 4 - 0 - · 0 - · 0 - 1 - 2 - · 3 - · 6 - · 5 - · 5 - · 5 - · 6 - · 3 1 - 6 0 : F. 4. 5, . 6, . 7, . 9, 1. , 0. , . 1, . 2, . 4, . 5, . 5, . 6, . 7, . 7, . 8, . 9/ CATA (947E(I), I=289, 576)/ 10 - , - 3, - 6 - 1 - 4 - 1 - 5 - 1 - 6 - 1 - 6 - 1 - 6 - 1 - 9 - 2 - 1 - 2 - 4 - 2 - 5 - 2 - 5 - 2 - 5 - 9 - 1 - 7 - 1 - 9 - 2 - 2 - 1 46 4 : <u>41.0.1.2.1.3.1.5.1.6.0...1..2.4..9.1.0.1.2.2.4..9.1.0.1.2.4.</u> 5. 3.. 5. . 9. 1 . 2. 1 . 3. 1 . 5. 1 . 6. 1 . 8. 1 . 9 . 2 . 1 . 2 . 4 . 7 . . . 3 . . 6 . 1 . 2 . 1 . 9 . 2 . 1 . 2 . 4 . 7 1 4 7 4 7 <u>62.6, 2.9, 3.1, 3.7, 4.4, 9., .1, .2, .3, .6, .7, .9, .9, 1, 2, 1, 2, 1, 2, 1, 3, i</u>

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•						
 C 3 6 7		2,1.3,1.5	.1.8.03	4	6 7 9 . 1	2,1.3,1014750
					.6,0	
						.,1.,1.,1477
 50 1 7	******		*******	1017011031	6 7 7	
					, . 0 , . / , . / , .	
	E(1) 1=577					:14790
10.,3.,0		333.	4,.4,.5,3	., [.,].,].	4 4 5	566.314803
 <u> </u>	Jackson	14.24.24.	2.2.2.	وأوولوكوون	<u> </u>	2 3 3 . 3 14913
3.3,.4,.4,	.5,0.,0.,(l.s C. 1. 1	1, . 1, . 2, .	2,.2,.3,.3		12, 114820
						3,3.,3.,614846
						2 2 3 . 1 14450
 77 - 0 - 0 - 0	C l l	2. 2. 1.	2	****	1 2 2	2, 3, 3, 114360
3 6 6 3	0 1 0	2 2 7	7 6 6	E 6 0 0	********	2, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,
 3.3.0.3.0.	<u> </u>	60,600,00	307,040	<u> </u>	1 ± 1 ± ½ 1 ± 2 ± 1 . 1	122100 100 14970
						11.214885
						.,,,,,,,,14495
						2,00,00,014900
 CG 9 3	J	1, 1, 1, 1, 1, 1	1.3 ? ?			1 2 2. 614917
C0.,0.,0.,	3 3	1,.1,.1,.	1 1 1	363.		1,.1,:1492:
E.1 1/						314931
	E(I) . I=865	.11521/				1494
_			9.1.1.1.1		. 4 9 . 1 . 7 . 1	. 2, 1 . 3, 1314953
 2 4-1 5-1	7.2 6.6.	7 9 9 9 9 9 9 9		14:1-12:12	7.	.,, 6,214967
						. 3 3 2 ? 140 ? 2

						.3,.3,.4014990
						1 2 3 15 3 3 5
						.2.,.3345317
83, . 4, . 5, .	5, .6, .6, .	77.36.	.0.,,.5		.99,1,2,1	.5.12.15127
9.0	2 2 2 3	. 3 7 3 .	.4.35	· · · · · 2 · · · 3 · · ·	4 5 5 5 .	.67, .9015330
4 . 0 0 0 .		.223.	. 3 3 3 .	[]	1 2 7 7 .	.45,.5315040
3 - 6 - 7 - 9 -		.223.	.355.	-55-01		.45,.5115450
						3 2 2015065
						0
			<u> </u>	• 6 9 • 6 9 • 6 9 • 6	<u> </u>	
	2 3 2 .					315343
	E(:) -: = 115					315390
						1.5.1.7.315133
						1,1,2,9,915111
						557.115120
 5 . 8 9 . 1 . 0	,1.1,1.2,1	. 3 . 1 . 4 . 1 .	6. 3 0	8.1.6.1.2.	1.4.1.6.1.3	.2.3.2.1315143
6.2.5.3.4.	002	3 4 5	6 6 7	9 9 9	. 0 4 5	89.1.1015150
						1.1.1.2,315173
					.1.2.1.6.5.	
						4.1.2.1.15233
 200000000000000000000000000000000000000		.01,.7,	•41•4•1•	4. 1. (1. 4	0 + + (+ + 5 + 3 +	.9.1.3.1315213

F. . 4. . 4. . 5. . 5. . 5. . 5/ 15250 :1526: 00 100 .=1.IMAXKV 315270 115290 DO 108 K=1. THEXKY 100 ALOSS(I.K)=0. CO 114 J=1.2 CO 114 T=1.55 15293 115 31 118 SHOTS([, J)=0. 115 320 IPUT = -1 15 332 AH1="INPUT 1" 15340 CALL CKSTOR (AH1. I BUT) 115351 315360 120 PPINT "TIS BLUE ATTACKING REC?" 215 37: CALL RESOA (INY)
IF(INX.EO. "Y")GO TO 170
IF(INX.EO. "Y")GO TO 130 315393 615396 11540: GO TO 120

160 FORMAT (" INCORRECT - PESPONSE MUST BE GE C.O INC LE 1.C")
165 FORMAT (" INCORPECT - PESPONSE MUST BE GE C.) AND LE .99") C1541: :1542: 715435 31544: 15457 GC TO 130 1546. 180 IA=2 IO=1 1545 190 PEINT - "ENTER TYPE OF ENGAGEMENT"
CALL REECH
IENGAGEXINX(1) 015490 015500 015510 IF (IENGLG.EU.999100 TO 203 115520 IF (IENGAG.GE. 1.AND. IENGAG.LE. 6) GO TO 223 115530 PRINT 213 200 PRINT *.** 15540 DELAY.....ENTES 2" :1555: FOR MEETING ENGAGEMENT.....ENTER 1556 PRINT .. PRINT +, " HTTHOFAM...........ENTER DEFENC FORTIFIED POSITION..ENTER 4"
DEFENC PRESAGES POSITION..ENTER 5"
DEFEND MASTY POSITION...ENTER 6" POINT 4," 11554: PRINT -, -:559: PRINT .. 1156:: 210 FORMAT (" INCOFRECT ENTRY - TRY AGAIN") 11561. GO (0 193 11562: 115630 IFITENGAG .GT. 31GO TO 23C 11554: IP=I ENGAG GO TO 272 233 PRINT . "ENTER ATTACKER POSTUPE" : 1565: 115661 15671 CAL REETA 1544; 1544; INX= XINX (1) IF(INX.EQ.9991GO TO 240 IFILMX.JE.1.AND.INX.LE. 3190 TG 250

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	PRINT 21 C	315710
24	POINT . FOR FRONTAL ATTACK ENTER 1"	215723
		315730
	PRINT . " GOURLE ENVELOPMENT. ENTER 3"	:15740
	60 f0 233	315750
25	0 IP=3°IENGAG-9÷InY	315760
:	EN AND SHOKE INPUTS	\$15770
26	FORMAT(" ENTER PERCEN" (DECINAL) JF ",44," SMOKED")	315785
	GONT INUE	11579:
	AH(11)*[4	115932
	AH(12)=:ENG4G	J1541.
	AH(13)=1AF	115 4 2 2
	00 290 IEL=1.2 _	315530
	KIN3 *"SLUE"	315840
	IF (I EL .EQ. 2) KINQ=" GE C"	115357
	PRINT 29 C. KINC	315360
24	O FORMAT(" ENTER THE ".A4." FIRREDHER SCORETO OR MUREDEON TAGAIRM)	315379
	CALL REENA	01518:
		015490
	ACFRS(IEL)=AC	
		215900
20	AH(1 3+IEL) *AC	115913
67	CONTINUE	115925
	GO 30G LEL=1.2	115933
	fSFPS(IEL)=0.	315943
	CO 30. 1=63.58	_114950
	"SFPS(IEL)=FSFPS(IEL)+ELM"(I,IEL)-FFS(I,IEL)	115963
	C CONTINUE	_:15971
	00 310 IEL=1,2	315983
	AHFDS(IEL)=0.	15995
	00 313 7=59.64	316333
	AMFPS(IEL) = AMFPS(IEL) + ELMT(I, IEL) + FFS(I, IEL)	_11501:
31	G CONFINUE	116:2:
	00 330 IEL=1,2	016030
	ADFPS(IEL)=0.	016040
	IS 22	116353
	IF(IEL.EQ.2) 15=1	16363
	IF(AHFPS(IS).50.0.01GO TO 330	316070
	CO 329 I = 31,42	3160*0
	ADFPS(IEL)=ADFPS(IEL)+ELYT(I,IEL)*FPS(I,IEL)	116090
	3 CONTINUE	116133
33	0 CONTINUE	116110
	CO 350 IEL=1.2	316127
	UO 340 JCAT=1,4	_ 316130
_	PCSJR(IEL, JCAT) = 0.	716140
34	CONFINUE	315150
35	CONTINUE	315150
36	9 PRINT *, "PLAY EH?"	316173
	CALL REECA (INX)	316143

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	IF(INX.EQ. "Y") GQ TO 370	
	IF(INX.ED."Y")GO TO 340	116201
	GO TO 36C	16210
	Oh. die	016220
	CALL EN	
	76 76 76 76 76 76	016240
	00 19ù 1E_=1.2	116250
	PCSMG(IEL)=0.	£ 16 26 C
	PCSSM(IEL)=Q.	152/
	CONTINUE	:1629:
	CO 490 J=1.2	
	Kai	316300
		116 31:
	KIND="9LUE"	315323
	IF (1.EQ. 2) KINDE"CEO"	516 330
	autu, attauran	276.540
	FORMAT (" IS ", A4." EMPLOYING SHOKE?")	716350
	CALL REECA (INX)	116361
	TF(INX.EQ. "Y")GO TO 420 TF(INX.EQ. "Y")GO TO 440	216373
	2. 18.14.16.20 1 700	
	Su 10 his	0;639;
	KING="tel"	315401
	IF (J.Eq. 2) KINC="9_UE"	:1541:
	PRINT 26C. KIND	:1642.
	CALL REECS	16431
	PCSM0(3-J)=xINx(1)	11644;
	IF (PCS 40 (3-11.6E. 04 NO. PCS NC (3-J).LE99) GO TO 443	316450
	PRINT 165	116455
	GO TO 430	:1647
-	PRINT . "ENTER PEPCENT (CECIMAL) OF SELF SHOKEJ "	716480
	CALL FEECA	
	- 093 til 91 - 44 44 14 1	016500
	IF (PCSSM (J) .GE. 0AND .PCSSM (J) .LE.1.1GC TO 453	116517
	PPINT 160	316520
	GO 10 469	<u> </u>
	IF(J.EQ.1)GD *0 480	315563
	PRINT 4, "ENTER TYPE OF REC SPCKE- "	116550
	CALL REC4	J16551
	INX= XI.4X (1)	11557:
	IF(INX.EQ.999)PRINT 470	315590
	ifinx.eq.1.07.inx.eq.21ga TC 4AQ	215591
	60 10 460	11661:
	FURNATION ENTER 1 FOR AP OF IF ONLY SELF COSCURING SMCKE IS	116613
C	EMPLOYED. ENTER 2 FCK OTHER TYPE SMOKE.")	31652:
480	ISMO KE(J)=INX	31653:
490	CONTINUE	116041
	AH(18) =FCSH3(2)	<u>:1655</u> :
	AH(19)=PC5SH(1)	:1606:

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116340 116390 AH(21)=PC 554(2) IFILSHOKE(2) .NE. "Y" JAH(22) = ISHOKE(2) 500 CO 523 IEL=1,2 CFPS (IEL)=0. 1671 CO 520 1=6.30 016720 PNSHK#(1 .- PCSMO(TEL)) = (1 .- PCSMO(T-TEL)/2.) = (1 .- PCSSM(TEL)) EF(L .EO. 6) AMFPS (TEL) = AMFPS (TEL) = (1 .- (1 .- PNSMK)/2.) 116730 :1574: IF(1.LT.11)GO TO \$10 1575; 21676; CPCSMO(1)/2. 316790 IF(IEL.EQ.1.AND.ISMOKE(2).EQ.2.AND.ITHEFM(I-12.IEL).EQ.2)PNSMK=1.-C16333 CPCS40(1)
510 CFPS(IEL) = CFPS(IEL) + E LMT(I, IEL) + FPS(I, IEL) + PNSMK 31641C 115420 SZE CONTINUE 116830 00 530 I=1.2 CFPS (I)=CFPS (I) = (1. -PC3GR (I,4)) 316351 FSFPS(I) =FSFPS(I) + (1-PCCGP(I,3)) 115461 AHFPS(I) = AHFPS(I) = (1-PCCGR(I, Z)) ACFPS(I) = ADFPS(I) + (1-PCCGR(I, I)) 116871 316891 CFPS(I)=CFPS(I)+AHFPS(I) 216890 FSFPS(I) =FSFPS(I) +AOFFS(I) +ACFPS(I) 116903 530 CONTINUE CFP3 (IA) =CFP3 (IA) - APOS(IP) 1691: 11692: CFPS (ID) =CF PS (ID) + CPOS (IENGAG) 016930 316940 11695: 1696; IF (IRUN-ED. 1) PRINT + " PROGRAM STOPPEL ---- ATTACH FORCE FILE SERVICES 1597: IF (IRUY. EO. L) STOP 51699: GO TO 1000 IFIRST=1 IF(3FPS(13).GE.1)GO TO 150 PRINT 4, "THEFE IS NO MANEUVER FF FATIC" CFPR=0. :1733: 17:2: GC TO 561 017050 31735. 550 CFPR*CFPS(IA)/CFPS(IC) 560 IF(FSF25 (10), GE.1)GO TO 579
PRINT -, "THERE IS NO FIRE SUPPORT FO FATIO" 317390 FSFPR=0. GO TO 550 317393 317130 570 FSFPR=FSFPS(IA) /FSFPS(IQ)
580 FPR=(CFPS(IA) +FSFPS(IA))/(CFPS(IC) +FSFPS(ID)) 11711 31711; 31712; NOTE-ALL AUTOMATIC MEAPONS MERE CONSICERED IN MAMPUVE FIREFOME.. 317131 3171+1

CALL REECH I TEPRNEX INX (1) 717163 21717: AH(23) SITERRN 317150 IF (ITEREN.EQ. 9991GO TO 600 17190 IF (ITERRN.GE. 1. AND .ITERRN.LE. 4) GO TO 610 317233 PRINT 210 FOR COEN TEFRAIN.....ENTER 1"
POLLING TERPAIN....ENTER 2" 317215 PRINT ... 117220 MILLY TERRATHALLA SENTER 3"
MOUNTAINOUS TERRAIN ENTER 4" PRINT .. <u>.:723:</u> PRINT .. 317240 17251 GO FO 590 610 PRINT ". "ENTER VISIBILITY FACTOR" 017263 11727: 11728: REECH CALL IVIS=XINX(1) 117 290 IF(IVIS.EQ.999)GQ TO 620 AH(25)=LVIS 217300 IFITYIS.GE.1. AND TVIS LE.51GC TC 530 17311 PPINT 210 620 PRINT 4." 117 720 217.330 FOR VISIBILITY OF 110% ENTER 1 POINT +," 85% ENTE: 2" 317343 55% ENTER 3" 11735: PRINT ... 45% ENTER 4" 317363 PRINT ... 3C% ENTEP 5" 17373 PRINT .. GO 10 610 017380 630 JVIS=(IV S+1)/2: 640 PRINT +, FIS THIS A DAY BAT*LE?** J1739J 217400 CALL REEDA (INK)
IF (INV. EQ. "Y" OR . INX. EQ. "N") GO TO 653 317410 117420 21743: 650 JOAV1="NIGHT" 017440 IF (INX.EQ. "Y") JOAY1="DAY" 317450 11745: NOR3 =2 <u> 11747:</u> IF (INX.EQ. "Y") NGR [=1 AH (24) =NGRO 317490 11749 PRINT ". "WILL NEW ARMOR RE FULLY USED?" 117531 CALL REEDA (TARHOR) 660 PRINT *, "IS ATTACKER MOUNTED"
CALL REEDA(INX) 317513 117523 IF(INX.EQ. "N") IMOUNT=1 IF(INX.EQ. "Y") IMOUNT=2 :1753: 017540 1755. AM(26) = I MCUNT IF(INX.EQ.""".OR.INX.EQ."Y")GG TG 670 317550 GO TO SECTION OF SECTOR ATTACKER MASSEC (MAX=1)" 31757; 11758: 117591 CALL REEC4 F"ASS=XINX(1) 1761. 1752: AH(27)=FHASS IF (FHASS .GT. 0 .. AND .FHASS . LE. 1 . IGO TO 675

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	PRINT 21C	\$17,630
	GO TO 670	217643
675	IF (FMASS.EQ.1.0) GC TO 73G	317652
680	PRINT 4. " ENTER HOLDING FIREPOWER RATIO- COMIN CO "	117660
	CALL REETA	\$17675
	ANIN=XINX(1)	217688
	AH(28)=Phin	317690
	IF(RMIN.GT.G.AMO.RMIN.LE.E.)GO TO 690	017790
	PRINT 21C	317713
	GC TO 680	317720
	FPRH=(FPR-RHIN-(1FMASS))/FMASS	<u> </u>
730	if (FPR.LT.RMIN.OR.FMASS.EQ.1.Q) FPF M=FFA	017740
	IF(IENGAG.LE.3)GO TO 713	017750
	STAL E(2) =1.4	J17750
	STAL E(3) =1.7	:1777:
710	00 720 2=1,11	017780
	IF(FPRM-LT.STALE(I))GO TO 730	117790
720	CONFINUE	317800
	I=12	317513
730	[FP₹=I	317525
	ITA9LE=IENGAG	617930
	IF(LTA3LE.EQ. 3) ITABLE =2	517840
	IF (ITABLE, GT. 3) ITABLE=ITABLE-1	317850
<u> </u>	ENTER PATE ARRAY AND READ ROA.	017460
	FOAL #RATE (INDEXS(IFPR, IMOUNT, JVIS, ITERAN, ITARLE, 12, 2, 3, 4))	
	IF(IFF9.LT.12)GQ TO 742	17385
	RJA2 =ROA1	117995
	GC TO 759	11790:
740	ROAZ = PATE (INDEXS (IFPR +1 . IMOUNT .JVIS . I ERF N, IT19LE .12 . 2 , 3 , 4))	317910
	ROA=ROA1+(ROAZ-POA1)+(FPR#-STA_E(IFFR-1))/(STALE(IFFR)-STALE(
	1 1))	317931
	IF(#QA1.LE.Q.)RQA=Q.	11794
	IF (I ENGAG. E7. 3.ANG. INCUNT. E7. 2) 702=704-1.5	21795:
760	PRINT - "ARE MINES EMPLOYED IN THIS SECTOR"	717963
	CALL PEEGA(INX)	317973
	IF(INX.EQ. "Y")GO TO 770	21798
	IF (INX.EQ. "N")GO TO 790	017990
	GU TO 750	119333
770	IF (I ENGAG. NE. 4. AND . I ENG AG. NE. 5) FOA 75 FCA	216010
	MINES=1	319622
	GQ 70 790	315030
700	MINE S=2	11503.
	PRINT * MENDULO TIME OR DISTANCE BE HELD CONSTANT	
	CALL REECA	319750
	· · · · · · · · · · · · · · · · · · ·	315063
	INX=XINX (1)	319373
	IF(INX.EQ.999)GO TO 400	319330
	IF (I NX.EQ.1)GO TC 810	318:9:
	IF (INX.EQ.2) GO TO 830	715170

PHINT 212	113111
800 PRINT ." FOR CONSTANT TIMEENTER 1"	31912:
PRINT FOR CONSTANT TIMEENTER 1" PRINT GONSTANT DISTANCE ENTER 2"	318133
GO TO 79G	319140
810 PRINT ""ENTER ATTACK TIME IN HOUPS (MA # 24)"	118150
CALL REED4	319163
ATIME=XINX(1)	11517:
IF(ATIME.LE.24.AND.ATIME.GE.11GO TO 82G	J1819J
PFINT 21 û	118191
	718230
GO TO 915 820 ACIST=ROA-ATIME	21A212
• 60 10 960	118225
930 PRINT - "ENTER ATTACK DISTANCE IN METERS (MAX 75300.)"	114230
CALL REED4	319243
AGIST=XINX(1)	11125;
IF (A CIST.GT.0ANJ.ACIST.LE.753 (0.) GO TO 840	\$13265
PRINT 210	319270
GO TO 930	J18293
840 [F(R)A.EG.g.) GO TO 850	114291
A015T*A01ST/1000.	_ 319310
G3 T0 960	118 320
850 ATIME=0.	119330
GJ TO 96G 850 A-IME=0. ACIST=0.	318347
663 Am(29) = MINES Am(33) = ATINE Am(31) = ACIST	318350
AM(3J)=ATINE	114361
AH(31)≈ACĪSŤ	219370
4 H(3 2) =RUA	115 350
PRINT 870	116390
870 FORMAT("1")	314433
TEPS (IA) =CEPS (IA) +FSEPS (IA)	318413
TFPS(10) =CF 0S(10) +FSFPS(10)	11942:
	318435
1	118-4
PRINT 380	318453
880 FORMAT(" I",63X,"I")	:19+6:
890 FORMAT (" I FP SATED IN SECTUR'S MAIN ATTACK AFEA". 5 (".").	118471
C F4. 1.17X. "I")	11490
900 FORMA"(" T TOTAL FP RATIC", 28("."), F4. 1, 13x, "I")	:10490
910 FORMAT (" I HANEUVER FP GATIU", 25(".") .F4.1,13x,"[")	314503
920 FORMAT (" I FIRE SUPPORT FP RATIO", (1("."), F4.1,13x.".")	11451
930 FORMAT(" I RATE-OF-ADVANCE (KPH)", 20("."), F5.2,137."["]	319523
940 FORMAT (" I JURATION OF ATTACK (MR)",18 ("."),F5.1.13x,"I")	113531
950 FORMAT(" 1	71354
961 FORMAT(" I MANEUVER FF SCORE", 25("."), F5.C."/", F5.2, "I")	11455:
970 FORMAT(" I FIRE SUPPORT FP SCORE", 21("."), F8.C."/",F8.C."")	113561
980 FORMAT(" I TOTAL FP SCOPE", 28(" ") ,F3. [,"/",F3. [,"/",F3.]	11357
PRINT 960 CFPS (IA) CFPS (IC)	11954
LIGHT PORTOLINATATION CASES	4 2 3 7 7 4 4

PRINT 971.FSFPS (IA) .FSFPS (IO)	018590
PRINT 980.TFPS(IA).TFPS(ID)	31-637
PRINT 89C.FPRM	11861;
PRINT 90 G. FPR	315623
PRINT_910.C FPR	314630
PRINT 920, FSFPR	018640
PRINT 890	110650
PRINT 930,RCA	318553
PRINT 961.ATITE PRINT 950.ADIST	218677
PRINT AGE	015680 018690
ORINT *, "**********************************	110596
	31871
PRINT 97G	118725
990 IF (IRUN.EQ. 1) PRINT 4. " BATTLE CHARACTERISTICS OF INTEC HETE"	118730
00 995 J=1,2	318743
AH(3 2 - J) = CFPS (J)	018750
AH (3 4+ J) = FSF PS (J)	119760
AH(36+J) =TFPS(J)	01877:
995 CONTINUE	315753
AH (3 9) * FPO H	_018790
4H(4G) = FPR	318433
AH(61) #CFPR AH(62) #FSPPR	318410
GALL CKSTOR(AM1,IPUT)	310825
1000 END	_018930 -018940
	-
W_90	

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SUBROUTINE EN COMMON LA.ID. IP. IENGAG. ITERAN, ILIS, IMCUNT, MINES, CFPR, FSFF?, FP., 31647; ATTHE IFIRST IRUN NO C. FHASS . MAYKY . 18441 SF(2), FSSF(2), PACK(2), 119890 ELTT(80,2). ALOSS (66,66). SHCTS (55.2). CKILL(53.2). SHCTS V (55.2) 16910 COMMON/REED/JOAY1.XINX(4), ICARO(23), IAR POP 718912 318922 COMMON/DATA/F95(80.2) . CRENS (53.2) . 4 FOS(12) . CPOS(6) . ITHE-H(21.2) . 1 PSN (6.2.2) . PLT (15) . KEY (171) 119930 COMMON/ONE/LFIT(35).ARRAY(90).4 YBUF(1624).C(83.2).AGI. 018940 1 ASCENE, A SECT, YSECT 314950 COMMON/EW/PCOGR(2.4). ICOUNT (8) .ISMOKE (2). PCSHC(2). PCSHC(2). 119960 1 , NMU (2) 118971 COMMON/FPSC/ACFPS(2).AHFPS(2).ACFPS(2) 113950 DIMENSION IJUL(2,4), ART 12,6), KMNV(6), NJMRQ(2,4), LP?(4), 918990 PCEFF(4) PCFPR(4) JCQINI(4) 219303 DATA ((IVUL(I,J),J=1,4),I=1,2)/2,1,2,1,2,1,1,1/ 119010 CATA ((ART (I. 1) +1=1+6)+ I=1+2)/0. + . 2 + . 2 + . 4 + . 4 + . 6 + . 4 + . 4 + 119020 119030 119140 319350 119160 100 FORMAT (" INCORRECT RESPONSE-TRY AGAIN") 319070 19350 PRANT . "ENTER EN SEED-" 119190 CALL SEEDB (INX) 3191<u>0</u>0 ISEED=INX+ASECT 119110 CALL RANSET(ISEED) 119120 00 363 J=1,2 KIND=" \ED" 119130 219143 IF (J.EQ. 2) KINC="SLUE" 11915. 140 PRINT 150, KIND 150 FORMAT (" ENTER THE # OF ".A4." EN MISSIONS "EQUES: ED (MAK=53)") 019163 119170 REED4 CALL 119180 (1) XMIX=2 MALM 119131 IF IN JAHS .LT.O. OF . NJAMS .GT .SGIGO TO 160 1921 IF (NJAMS.EQ.Q)GG TO 360 :1921: GG TG 170 160 PRINT 100 319223 119233 119240 GO TO 140 31925: C 1925 CO 180 I=1.4 IF(J.E2.1) JCOUNT(I) = ICOUNT(I) 31927: IF(J.EQ.2)JCOUNT(I)=ICOUNT(I+4) 1192AC 10700 IPK(I) =0 180 CONTINUE 1930: 119313 190 PRINT . "CHANGE EN PRIORITY?" 1932 CALL RESCATINX) 11933:

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	IF(INX.E0.999)GO TO 200	019360
	IF(INX.EQ."Y")GQ TQ 200	319350
		119250
	GQ fQ 190	219372
c		019395
	PRINT THE PRESENT ORDER OF FRIORITY IS:"	419393
•••	PRINT 4, " "	119463
	PRINT +," 1 AIR DEFENSE ARTILLERY"	319413
	PRINT . " 2 ATTACK HELICOPTERS"	219423
	PRINT +," 3 ARTILLERY UNITS"	J19435
	PRINT +, " 4 MANEUVER UNITS"	319443
<u></u>		119450
•	IF(INX.EQ.999)GO TO 190	319460
210	PRINT "." ENTER THE 4 ITEM NUMBERS FROM HIGH TO LUM PRICHITY"	
	CALL REEC4	619480
	IH=4 INX(1)	019493
	IX=XINX(2)	319533
	IY=KINK(3)	119513
	IZ=XINX(4)	119521
	IPR(IW)=1	019530
	IPR(IX)=2	119540
	IPR(IY)*3	119550
	IPR(IZ)=4	319560
	I(#)	219570
	00 220 T=1,4	2195 80
	IC=[C+IPk(I)	11959:
	IF (IPF (I) .LT. 0.08. IPR (I) . GT. 4) IC=1	119610
220	CONFINUE	319510
220	IF(IC.NE.10)PRINT 133	119620
	IF(IC.NE.10)GO TO 210	119531
	GO TO 250	119540
C		319650
•	00 240 T=1,4	119662
	IPR(I)=i	319677
240	CONTINUE	319680
<u> </u>		019692
•	00 250 I=1,4	319700
	PCEFF(I)=0	11971:
26.0	CONTINUE	11072
CC	GONI ANGE	31973:
U	IF (A UFPS (1) . E 1.0) JC OUNT (1) = 0	319741
	IF (A HFPS (J) . E 0.0) JCOUNT (2) = 0	21975
277	00 290 [S=1.4	219762
4£ N	00 283 1=1,4	21977
		219792
	IF(IPR(I).NE.IS)GO TO 280 IF(ICGUNT(I).EQ.0)GO TO 280	11979
	IX=NJAMS/NJMRQ(J.I)	11940.
	IF(EX.GT.JCOUNT(I)) IX=JCOUNT(I)	11961
	#LIEVOR: OPONO. (T1) TV-ACANII (T)	3 190 L.

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IF(IX.FO.1)SU TO ZED
PCEFF(I)=FLOAT(IX)/JCOUNT(I) 11982: 319433 NJAHS=NJAHS-IX-NJHRC(J.I) 1944 280 CONFINUE 11985: 290 CONFINUE 1986: 019870 00 300 T=1.6 IF(PCEFF(I).EQ.0)GO TO 303 219882 319490 MRN=RAMF(X)+130. 219900 IF (NRN.GE. 1.AND .NRN.LE. 16) H=1 019910 IF (NRN.GE. 17. AND .NRN.LE. 33) H=2 119925 IF (MRN.GE. 34. AND . NRN #LE. 5 C) M=3 319930 FINRN.GE. 51 . AMC. NRN. LE. 671 H=4 11994; IF (NRN.GE.68. AND . NPN. LE. 94) M=5 319953 IF(NRN.GE.AS.ANG.NRN.LE.100) M=6 IF(NRN.EG.0) M=6 PRINT ... CHANCE ROLL WAS ... 119<u>962</u> 119973 1993 IVC= IVUL (J.I) 319990 IF(I.EQ. 1.QR. 1.EQ. 3) PCFFR(I) = AR* (IVC. M)
IF(I.EQ. 2.QR. I.EQ. 4) PCFPR(I) = H MNV(M) 320330 121011 300 CONFINUE 120025 120030 00 350 T=1.6 222240 PCOGR(J. I) = CFPP(I) -PCEFF(I) 323350 KING = "BLUE" 22163 12037; IF (J.EQ. 2) KINC=" RED" IF (I.EQ. 1) PRINT 310.KING, FCOGE (...I)
IF (I.EQ. 2) PRINT 320.KING, FCOGE (J.I) 3 20,3 80 329395 IF(I.EQ.3) PRINT 330.KINO.FCDGF(J.I)

IF(I.EQ.4) PRINT 340.KINO.FCDGR(J.I)

310 FOPMAT(" PERCENT ".A4."ADA FF SCORE CEGNADED - ".F4.2)

320 FORMAT(" PERCENT ".A4."AH FP (CORE GEGRAGED - ".F4.2) <u>12:17:</u> 323110 920121 120130 330 FORMAT(" PERCENT ".44."3R(Y FP3 L MISSIONS DEGRACES - ".F4.2)
340 FORMAT(" PERCENT ".44."MNV FP (CORE DEGRACES - ".F4.2) 320140 J 20150 350 CONTINUE 32.153 360 CONFINUE ENO 929180

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	SUBROUTINE TANK	120200
	COMMON IA.ID. IP. IENGAG. ITERAN, IVIS. TYCUNT, MINES. CEPE, ESFR. FP.	12521
	1 ATTME IFIRST , IRUN, NUPD , FMASS , IMAXKY ,	120220
	2 SF(2).FSSF(2).PACK(2).	2023:
	3 ELYT(30,2),ALOSS(66,66),SHOTS(45,2),CKILL(53,2),SHCT3((55,2)	120240
	COMMON/REEO/JOAY1.XINX(4).ICARD(20).IARMUF	320250
	CUMION/CATA/FPS(AG.2) .CREHS(53.2) .AFOS(12).JFOS(6) .ITHE=4(21,2) .	
	1 PSN (6.2.2), PLT(15), KEY (171)	G 20275
	COMMON/QNE/LFIT(35), APRAY (90), MYBUF (1624), D (97, 2), 4C.	320290
	LASCENE, ASECT	220 290
	CUMMON/THREE/INTST(35). AH(90).IYBUF(1324)	121313
	COMMON/EH/PCCGR(2,4), ICQUNT (8), ISMOKE(2), PCS40(2), PCS54(2), AR2(2)	
		120329
c		320330
•	LOGICAL IFLAG, JFLAG, KFLAG	020340
	DIMENSION FOF (2), SUPDEG(3), 4(6,2), FIRE(6,29,2), ATCHEW(5)	3 20 3 50
	1 , JF ERRN (4)	323360
	DIMENS40N FOX (6,4) .PICKET (6,5,2)	J 20 370
	CIMENSION SSKP(32),ACO(2),OFEPA (22, 2),PLCSS (32, 2, 2), HTS (4.2),	120380
	1PKTLL(2C)	222390
	DIMENSION IBAMMO(20), IPAMMO(20)	029409
	DIMENSIGN PUN(4).STORE(22.2)	120410
	CIMENSION PCOH(2).PSS(2)	323420
	CIMENSION ICA (22,2)	120 430
	CIMENSION OUST(4.6.2)	625441
C		127450
	JATA (((CUST(I,J.K),J=1,6),[=1.4).K=1,2)/	225460
	1 2-1 .,.96,.92,.73,.54,2-192,.79,.68,.6,	127477
	2 2*179634.0171.4*0.,	120480
	3 1 94, - 74, - 58, - 46, - 3, 1 - , - 93, - 7, - 54, - 41, - 29,	120490
	4 1., . 92, . 52, . 34, 2-0., 1., . 44, 4-3./	120500
c	TARGET CATEGORY	120513
	UATA ICA 7/5-1,5-4.3.2.2,3.3.3.2.3.3.2.2.2.2.	120520
	R 4°1 . 2 . 5°4 . 3 . 3 . 4°2 . 3 . 3 . 4°2/	20530
	DATA (ATC?E#(I),I=1,5)/1.,2.,3.,2.,3./	020540
	DATA ((WTS(I,J),J=1,2),I=1,4)/.5,.6,4.3,5.7,5.9,7.4,18.,11./	320550
C	DATA ((HTS(I, J) , J= 1, 2) , I=1.4) /.6, .6, 5, 3, 6, 6, 5, 3, 6, 8, 10, .17./	120560
C	DATA (V(I),I=1.5)/165,.65453/	0.20 570
	DATA (IDANHO([]).I=1,271/12,10,4,11,9,3,3,6,5,3,4,	323543
	A J.14.J.J., J.5.5.J.Q/	320590
	OATA ([RAMMO(1] .[=1,20]/14,11,8,3,6,2,2,4,6,2,8,3,13	<u> </u>
	A ,6,7,9,4,0,14/	120510
	CATA ((A(T, J). J=1,6). J=1,2)/.999999977575.21.3353.	/ 12562:
	C4TA (SUPCEG(I).I=1,3)/1.,2.56,3.52/	320530
	DATA JTEPRN/"OPEN", "ROLLING", "HILLY", "MCUNTAIN"	120641
	1 /	12055:
	DAT4 ((OPERA(K.J).K=1.22), J=1,2)/	125563
	g. 95 81 93 95 95.	220670

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0.0 0.1								
### ##################################	d.76.	75 . 67 78	78 .					22264
### ##################################	s. 81	41,.81,.91		. 51 81 3	151.	•		12169
F. 35. 35. 93. 00. 96. 1207 R. 61. 61. 61. 61. 61. 51. 51. 51. 61. 61. 61. 61. 61. 61. 61. 61. 61. 6	مولاؤه و	75.					~ <u>-</u>	_ :2:71
R-616161515151516161616161. R-651.465/ R-65	F. 35.	3593,.00	, . 96 ,					12271
RASS.AS/ RANGE SANDS 22.7 EXPECTED NO. OF FIRINGS FACTOR (JIM FCXS FUCGE FACTOF) 22.7 EXPECTED NO. OF FIRINGS FACTOR (JIM FCXS FUCGE FACTOF) 22.7 EARNGE SANDS JK-500M 5J0-1K 1K-1500 1530-2K 2K-2501 2530-3K 1208 1 1.1. 1.1. 2.5. 2.5. 2.5. 2.5. 2.5. 2.5	F.73.	78 78 62						3 70 72
227 227	R. 81	51, . 61, . 51		. 61 61 4	161,			32073
22.7 22.7 22.7 22.7 22.7 22.7 22.7 22.7 22.7 22.7 22.7 22.7 22.7 22.5	K. 85.	85/					·	12074
227 327								3 237 5
1227-								:22.76
EXPECTED NO. OF FIRINGS FACTOR (JIM FCXS FUCGE FACTOF) QATA FOX/ FANGE BANGS JK-500M 5J0-1K 1K-1500 1500-2K 2K-2500 2500-1K 1208 TEPMAIN OPEN 1 1.1 1.1 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.6 220 ROLLING 2. 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2								32377
EXPECTED NG. OF FIRINGS FACTOR (JIM FCXS FUCGE FACTOR) 2218 241								32:79
EXPECTED NG. OF FIRINGS FACTOR (JIM FCXS FUCGE FACTOR) 1218 DATA FOX/ RANGE BANGS JK-500M 5J0-1K 1K-1500 1530-2K ZK-2501 2530-3K J208 1EPRAIN OPEN 1 1.1. 1.1. 2.5. 2.5. 2.5. 2.5. 2.5. 2.5	• • • • • • • • •		•••••	• • • • • • • • • •	• • • • • • • • • •		• • • • • • • • •	02:79
DATA FOY/ RANGE SANCS 205. JK-500M 530-1K 1K-1500 1530-2K 2K-2500 2530-3K 3208 EPRAIN								12141
DATA FOX/ RANGE SANCS 1208 JK-500M 5J0-1K 1K-1500 15J0-2K 2K-2500 25J0-3K 12C6 I	EXPEC	TED NO. OF	FIRINGS	FACTOR (JI	M FCXS FUC	se factoff		72581
RANGE SANCS								
JK-507M SJ0-1K 1K-1500 1500-2K 2K-2500 2500-3K 3208	ATAC							22593
TEPRAIN OPEN 1 1.1. 1.1. 2.5. 2.5. 2.5. 2.5. 2.5 220 ROLLING 2. 2.5. 2.5. 2.5. 2.5. 2.5. 2.5. 2.5.								
CPEN		3K -500M	5J0-1K	1K-1500	15jj-2K	ZK -250:	2500-3K	
1								
ROLLING 2, 2.5, 2.5, 2.5, 2.5, 2.5, 2.5, 2.5 1229 MILLY 3, 2.5, 2.5, 2.1, 1.7, 2.5, 2.5 1229 MOUNTAINOUS 4, 2.5, 2.5, 2.7, 1.1, 2.5, 2.5/ 2229 PERSENT OF TARGETS VISIBLE (KEN: PICKETTS FURGE FACTOr) 3239 OATA PICKET/ 3229 OATA PICKET/ 3229 VISIBILITY GATEGORY RANGE BANDS 1211 IK-500** 500-1K 1K-1500 1500-2K 2K-2500 2512-3K 3212 1 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.1, 3.1, 3.212 3 1.0, 1.0, 1.0, 1.0, 1.0, 1.1, 3.212 3 1.0, 1.0, 1.0, 1.0, 1.0, 1.1, 3.212 4 1.0, 2.0, 3.0, 3.0, 3.0, 3.1, 3.212 5 0.0, 0.0, 0.0, 3.0, 0.0, 3.0, 0.0, 3.1, 3.212 1 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.1, 3.212 3 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.1, 3.212 5 0.0, 0.0, 0.0, 3.0, 0.0, 3.0, 0.0, 3.1, 3.212 1 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.1, 3.212 5 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.1, 3.212 1 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.1, 3.212 1 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.1, 3.212 1 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.1, 3.212 2 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.1, 3.211 2 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.1, 3.211 3 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.1, 3.211 2 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.1, 3.211 3 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.1, 3.211								
2. 2.5, 2.5, 2.5, 2.5, 2.5, 2.5, 2.5, 2.				2,5,		2 • 2 •	2.5	
MILLY 3. 2.5. 2.5. 2.1. 1.7. 2.5. 2.5 2.29 MOUNTAINOUS 4. 2.5. 2.5. 2.7. 1.2. 2.5. 2.5/ 2209 PERCENT OF TARGETS VISIBLE (KEN: PICKETTS FURGE FACTOR) 3239 QATA PICKET/ 3209 ***OPTIGAL CATA 3219 VISIBILITY GATEGORY RANGE BANDS 2219 1 1.0. 1.0. 1.0. 1.0. 2.2. 25. 25. 22. 37. 2212 2 1.0. 1.0. 1.0. 1.0. 1.0. 1.0. 37. 2212 3 1.0. 1.0. 1.0. 1.0. 1.0. 1.0. 2212 5 0.0. 0.0 1.0. 1.0. 0.0 2.0 2.0 3.0 2212 ***THERNAL CATA 3210 2 1.0. 1.0. 1.0. 0.0 0.0 2.0 2.0 2.0 2.0 2.212 ***THERNAL CATA 3210 2 1.0. 1.0. 1.0. 1.0. 1.0. 1.0. 1.0. 1.0								
3. 2.5. 2.5. 2.1. 1.7. 2.5. 2.5 229 MOUNTAINOUS 4. 2.5. 2.5. 2.7. 1.1. 2.5. 2.5. 2.5. 229 PERSENT OF TARGETS VISIBLE (MENT PICKETTS FURGE FACTOR) 3239 QATA PICKET/ 3229 VISIBILITY GATEGORY RANGE BANDS 211 1.0. 1.0. 1.0. 1.0. 2.0. 2.1. 2.1. 2.1.				2.5,		2.50	<u> </u>	
MOUNTAINOUS 1.29 2.5 2								
## 2.5, 2.5, 2.7, 1.2, 2.5, 2.5/ 1209 PERDENT UP TANGETS VISIBLE (MEN: PICKETTS FURGE FACTOR) DATA PICKET/ OATA PICKET/ S209 OPTICAL CATA VISIBILITY GATEGORY TANGE SANDS 1210 1 1.0, 1.0, 1.0, 1.0, 1.0, 1.2, 37, 2213 2 1.0, 1.0, 1.0, 1.0, 1.0, 1.2, 0.3, 1211 3 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.2, 0.3, 1211 5 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0			2.5.					
PERSENT UF TARGETS VISIBLE (MEN: PICKETTS FUNGE FACTOR) DATA PICKET/ OPTIGAL CATA VISIBILITY GATEGORY RANGE BANDS 1213 1 1.0, 1.0, 1.0, 1.0, 1.0, 1.2, 37, 2212 2 1.0, 1.0, 1.0, 1.0, 1.0, 1.2, 1.2, 0.3, 1212 3 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.2, 2212 5 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0				• •				
### PERSENT OF TANGETS VISIBLE (MENT PICKETTS FURGE FACTOR) 1219					A.21	5.21		
OATA PICKET/ 3209 3209 3209 3209 3209 3209 3209 3209 3209 3209 32012	05306	MT . E TAZO			ICVETTE EIN	nse eactou		
QATA PICKET/ J229 *****OPTIGAL CATA \$209 VISIBILITY J213 GATEGORY RANGE BANDS 3213 JK-500** 500-1K 1K-1500 1500-2K 2K-2500 2532-3K 3213 1 1.0. 1.0. 1.0. 1.0. 1.0. 37. 3213 2 1.0. 1.0. 1.0. 1.0. 1.0. 1.0. 3213 3 1.0. 1.0. 1.0. 1.0. 1.0. 1.0. 3213 4 1.0. 1.0. 1.0. 1.0. 1.0. 3213 5 0.0. 0.0. 1.0. 0.0.		NI CP 14NO	1612 AT2T 2	CE INEN	TOKETTS FO	JE PAG U		
C209 C214 C214 C215	DATA	BICKET!						
### CATEGORY ####################################	UNIA	FLUNEIT						
VISIBILITY GATEGORY RANGE SANCE JK-500** 500-1K 1K-1500 1500-2K 2K-2500 2532-3K 3212 1 1.0, 1.0, 1.0, 1.0, 1.0, 3.7, 3212 2 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 3.7, 3212 3 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 3.2, 3212 4 1.0, 99, 0.0, 0.0, 1.0, 1.0, 1.0, 3.2, 3212 5 0.0, 0.0, 0.0, 1.0, 0.0, 0.0, 0.0, 3.2, 3212	0.077.0							
GATEGORY RANGE SANCE 24-2506 2502-3K 3212 1 1.0, 1.0, 1.0, 1.0, 1.0, 1.2, .37, 2212 2 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.2, 37, 2213 3 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.2, 2213 4 1.0, 29, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.1, 0.2, 0.3, 0.213 5 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0								
				SANGE 98	NOS.			
1 1.0. 1.0. 1.0. 1.0. 1.0. 1.237. 2213 2 1.0. 1.0. 1.0. 1.0. 1.2. 0.3. 1213 3 1.0. 1.0. 1.0. 1.0. 1.0. 1.0. 1.3. 1.2. 2213 4 1.0. 1.0. 1.0. 1.0. 1.0. 1.0. 1.3. 1.2. 2213 5 0.0. 0.0. 1.0. 0.0. 0.0. 0.0. 0.0. 0.0	Q = 6307		500-1V			24 - 25.0	2511-34	
1 1.0, 1.0, 1.0, 1.0, 1.6, 1.2, .37, 2212 2 1.0, 1.0, 1.0, 1.0, 1.0, 1.2, 0.3, 1212 3 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.3, 1.2, 2213 4 1.0, .99, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0		JK -300-	30 0- 74	74-7300	130 2-54	6/-6/00	£314-14	
2 1.0. 1.C. 1.3. 1.7. 1.2. 0.3. 1212 3 1.0. 1.C. 1.0. 1.C. 1.3. 3.2. 3213 4 1.0. 99. 0.3. 0.0. 5.1. 0.3. 3213 5 0.0. 0.0. 1.0. 0.0. 0.0. 0.0. 0.3. 3213 THERMAL SATA 1 1.0. 1.0. 1.7. 1.0. 1.2. 1.0. 3211 2 1.0. 1.0. 1.0. 1.0. 1.0. 1.2. 1.3. 3211 3 1.0. 1.0. 1.0. 1.0. 1.0. 1.2. 1.3. 3211		1.0.	1.0.	1.0.	1.6.	1.2.	. 37.	
3 1.0, 1.0, 1.0, 1.0, 1.0, 1.1, 1.1, 1.1,	_							
4 1.0. 199. J.J. Q.G. C.J. J.J. 1213 5 0.0. 0.0. 1.0. 0.0. 0.0. 0.0. 0.0. 0.3. 0.3								
5 0.0, 0.0, 1.0, 0.0, 0.0, 0.0, 0.1, 0.3, 1213 THERMAL CATA 1 1.0, 1.0, 1.3, 1.5, 1.1, 1.3, 1211 2 1.0, 1.0, 1.0, 1.0, 1.0, 1.3, 1211 3 1.0, 1.0, 1.0, 1.0, 1.0, 1.3, 1211	Ĭ.							
1211 THERMAL CATA 1 1.0, 1.0, 1.3, 1.5, 1.1, 1.3, 1211 2 1.0, 1.0, 1.0, 1.0, 1.0, 1.2, 1.3, 1211 3 1.0, 1.0, 1.0, 1.0, 1.0, 1.2, 1.3, 1211	5							2139
211 1 1.0, 1.0, 1.7, 1.0, 1.1, 1.1, 1.1, 1.1, 1.1, 1.1, 1.1	•	0.01	4 • 4 •	4.44	,		****	12110
1 1.0. 1.0. 1.7. 1.5. 1.1. 1.0. 2211 2 1.0. 1.0. 1.7. 1.0. 1.2. 1.3. 1211 3 1.0. 1.0. 1.0. 1.0. 1.2. 1.0. 2211	THER	AL CATA		·····				52111
2 1.0, 1.0, 1.0, 1.0, 1.2, 1.3, 3211 3 1.0, 1.0, 1.0, 1.0, 1.2, 1.0, 2211	1		1.0-	1.3.	1.5.	1.1.	1.1.	22112
3 1.0. 1.0. 1.0. 1.0. 1.3. 1.0. 2211								32113
	3					•		72114
	•	7.3.	1.61	4.14	1.44	• 77 •	• 779	4411

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5 1.0. 1.090. 0.C. C.J. J.J/	
• • • • • • • • • • • • • • • • • • • •	
	1211
SET DEBUG VARIABLES (1 FOR NO DEBUG)	0212
	2212
SIDE VARIABLES	3212
JTES T1=1	3212
J7ES T2=0	121 2
FIREP VAFIABLES	3212
ITEST1=11	2212
11E372=20	ú 21 2
TEST1=17	2212
	7513
N:316-1/	0 21 3
	3213
	0 21 3
PRINT(52.+)"4++++4 #HOR"	3213
DO PRINT . "DO YOU WISH TO PROCESS ARM CR/APTIATING ASSESSMENTS?"	3213
CAL. REECA (INX)	; 21.3
IF(INX.EQ.~Y~)GO TO 110	3213
IF (INX. EQ. "N") GO TO 1143	0213
GJ 10 103	J 21 3
GO TO 103	2214
	ü 21 4
IPUT = -1	1214
AM12 "CI ARMOR"	8214 3214
CALL CKSTOR(AH1.IPUT) CO 115 I=1.90	3214
15 ARRAY([]=0	
NWC= 7	0 2 4
00 117 7:1,20	1 27
ING= 11+(I-1)*4	3214
17 AH(INC)=1	7215
	2215
PRINT +, "COES THE MEDAS HAVE THERMAL SIGHTS?"	0215
CALL REEJA (INX)	3 21 5
ITHEPM(10,1) =1	; 215
IF(INY.EQ."Y") [THERM(10,1)=2	J 215
66* 19 4 MUTIL NEW ASHA: 35 PM . N 185039	3215 3215
PPINT *, "WILL NEW ARHOW BE FULLY USEO?" CALL WEETA(IAR)	2215
CALL RECAILAR)	- J215
READ CPTICAL TABLE	9216
REVIND 15	1216
20 IF (JOPT. NE. "OPT") GO TO 130	0215
IF (JTEFR. NE. JTERR N (ITERRN) I GO TO 130	9215

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. . .

	IF(JOAY.NE.JOAY1)GO TO 130	J 21 64
	GO FO 150	02165
130	READ (13.140) JSEAS . JDAY . JT ERR . JOPT . JVIS . ((FIRE (KK . K . 1) . KK=1.6) . K	=1.02166
	290	32167
140	FORMAT (1 X.5A10. (/1X.20F6.3))	32164
	IF(EOF(10).4E.0)GU TO 150	02169
	GO TO 128	32171
50	CONFINUE	G2171
		02172
• • •	READ THERMAL DATA	0217
	REMEND 10	32174
160	IF (JOPT. NE. "THERM") GO TO 170	02179
	IF(JTERR.NE.JTERRN(ITERRN))GO TO 170	32176
	IFIJDAY. NE.JOAY1160 TO 170	32177
	GO TO 183	32179
	READ (10.140) JSEAS, JOAY, JTERR, JOPT, JVIS, ((FIRE(KK, K, 2), KK=1, 6	0 2179
	1),<=1,29)	12130
	IF(EOF(10).NE_0)GO TO 150	. 2151
	GO TO 160	32182
180	CONT INUE	02183
	REDEFINE FIRE IN SOME CASES	02134
	QO 185 I*3,6	û 2199
15	FIRE (I,1,1THEOM (1,1)) =0	321.46
		02157
	CALL OPENMS (3.KEY, 171,0)	32188
• • •	REDEFINE JVIS FOR OUST ARRAY	32139
	JVIS=!VI 5-1	32190
	IF (JVIS.EQ.0) JVIS=1	j 21.91
		72192
		12193
<u> 190</u>	FOF(1)=0.	32194
	FOF(2)=9.	J 21 9
	CO 200 I = 1, 32	32196
	DO 200 J=1.2	\$ 2197
	00 200 K=1.2	02199
20 Q	PLOSS(I, J, K) = 0.	; 21 99
		1221
	INTERVISIBILITY ENTRY	1 55 3 1
		:2212
	ACQ(TA) = A (TENGAG, 2)	: 2233
	ACRIDI=A(IENGAG,1)	32224
10	PRINT . "ENTER RANGE INDEX BETWEEN AT ACKER & DEFENCER"	12219
	CALL REED4	12206
	MAXR=KINX(1)	32237
	1146	12214
	IF (MAXR.LT. C.OR.MAXR.GT.6150 TO 230	25536
	IF(NWD.LE.84) ARRAY(NWO) =MAXR	22213
	00 220 1=1.4	72211

w 01

220	PUN(I)=1.	J 2212
	IF(MAXR.EQ. 1991GO TO 230	72213
	IFINAXR.EG. DGO TO 1010	02214
		07215
	CHECK PANGE LIMITATIONS	92216
		02217
	POPT = PICKET (MAXR. IV IS.1)	02218
	PTH==PICKET (MAXR, IVIS,2)	32219
	IF (PQPT.NE.0.) GO TO 270	22220
	PRINT ", "VISIBILITY INSUFFICIENT FOR ENGAGEMENT AT SPECIFIED REPORTED REPORTS OF THE PROPERTY	
	L HITH OPTICS "	<u> </u>
	IF(PTHM.NE.0.)GO TO 270	22223
	CALL CONNEC (5))	2224
	PRINT . "VISIBILITY INSUFFICIENT FOR ENGAGEMENT AT SPECIFIED 24	
	7 •	12226
	00 225 I=1,MAXR	02227
	II=1 +MAXP-I	02228
	IF(PICKET(II.IVIS.2).NE.0.1GO TO 230	0 2229
222	CONTINUE	<u> </u>
	GO TO 1010	
230	PRINT IF PANGE IS RETHEEN!"	3 22 32 3 22 3 3
9 4 G	GO TO (260,257,255,250,245,240),II PPINT +." 3030 & 2501 ENTER 6"	3 22 34
		3 22 35
	PRINT "," 2500 % 2001 ENTER 5" PRINT "," 2000 % 1501 ENTER 4"	32236
	PRINT "," 1500 % 1001 ENTER 3"	62237
	PRINT +." 1000 & 501 ENTER 2"	2 22 38
	PRINT *." 500 & G ENTER 1"	122 79
	PRINT +, " -+TO STOP++ ENTER O"	32240
		32241
	GQ TQ 210	02242
270	00 319 J*1,2	2243
	KIND="9LUE"	32244
	IF(J.EQ.2) KINC="RED"	3 22 45
260	PRINT 290.KIND	: 22 46
290	FORMAT (" ENTER PERCENT OF ",A4, "APHCR/ANTIARYOR COMMITTED ")	32247
_ •	CALL PEEC4	22249
	DEXINX(1)	3 22 49
	IF (P.GE. 0ANO.F.LE.1)GO TO 300	32250
	POINT 1160	32251
	GG FG 28 C	12252
300	PCON (J)=P	2253
	if (NHC.LE.84) ARRAY (NHO+J) =PCOH(J)	2 2254
310	CONFINUE	22255
		12256
	00 390 J=1.2	5 2257
	JFLAG=.FALSE.	02258
	IF (J.GE. JTEST1.ANC. J.LE. JTEST2) .FLAG= .TRUE.	1 225 9

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PSS(J)=0. IF(ISHCKE(J).EQ.~N~1GO TO 390 12250C K=1 TF(J.EQ. 1)K=2 122520 122630 KIND="BLUE" 022640 IF (J.EQ. 2) KING="REC" 0 22650 320 PRINT 330.KINO 330 FORMAT(" IS ", A4, " EMPL CYING SHOKE? ") 0 22 663 322679 CALL REEDA(INX)
IF(INX.EQ."Y") GO TO 340
IF(INX.EQ."N") GO TO 390 322640 122690 222793 GO TO 320 322713 KIND="REC" 022720 IF (J.EQ. 2) KIND="BLUE" 022733 350 PRINT 360-KIND 360 FORMAT (" ENTER PERCENT(DECINAL) ".A4," HEAPONS DBSCURED") 12274J 122750 CALL PEEC 32276 322773 IF (P.GE. 0..ANC.P.LE.1.) GO TO 370
PRINT 1160
GO TO 350
370 PRINT * "ENTER PERCENT (DECIMAL) OF SELF SHOKED " 322785 322795 1225 GC 322310 CALL REESA 022920 PSS1 J) =XINX(1) 022833 IF(PSS(J).GE.G..ANO.PSS(J).LE.1.)GO TO 780
PRINT 1160 C 22343 0 2 2 8 5 C GO TO 370

380 CONTINUE

IF(JFLAG)PRINT(50.+)"PUN.F.PSS = ".FUN.F.FSS 122960 322579 22886 PUN(3-K) = PUN(3-K) + (1.-P/2.) PUN(K) = PUN(K) + (1.-P) IF (J. EQ. 2) PUN(3) = 1.-P 3 22 9 96 322900 722910 IF(J.E0.2) PUN(4)=1.-P/2. 122926 N1=4 H0+2 122930 N2=N W0+4 122341 IF (NWC.LE. 84) ARRAY (N1+J) =P :2295: IF (NHO.LE.34) ARRAY (N2+J)=PSS (J) 022960 390 CONTINUE 12297: PUN(1) = PUN(1) + (1.-PSS(1))
PUN(2) = PUN(2) + (1.-PSS(2)) 12295: 22990 400 FOF(1)=0 . 353315 123120 FDF(2)=0. 00 %10 J=1,2 323333 FOF(J) =0 . 123340 00 \$10 K=11.32 IF(ELHT(K.J)-PLOSS(K.J.1).LT.0.)GO TO \$10 123151 IF (J.EQ. IA.ANO. INDUNT .EQ. 2.ANO.K.LT.16) GC TO 410 12307:

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	KK=I CAT (K-10.J)	:2369
	JJ=1	22309
	IF (J.EQ.IA) JJ=2	12310
	XFOF=(EL HT (K, J) -PLO SS (K, J, 1)) + PCOM (J) + HTS (KK, JJ)	12311
	FOF(J) =FCF(J) + (XFDF+OPERA (K-1 C, J))	12312
410	CONTINUE	02313
		12314
	SCURATION LOOPOBSCURATION LOOPOBSCUPATION LOOPOBSCURATION	
		12316
	UNOBSCURED TARGETS/DESCURED TARGETS LCOP	22317
00/	2000 2000	32314
09:	SCURATION LOOPOBSCURATION LOOPOBSCUPATION LOOPOBSCURATION	
		12320
		:2321
	UN THE UNOBSCURED PASS THE THERHAL FICKET FACTOR IS USED	02322
	COMPUTE NO. OF TARGETS IF ONLY THERMAL HEAPONS CAN FIFE: CTHER	ro 12323 h::5502726
	THE OPTICAL PICKET FACTOR WILL BE USED SINCE THE HAJOFITY OF	12325
	MEAPONS WILL SE OPTICAL FIRERS. THE GREATEST DISCREPANCY IS	12325
	ONLY 3% (OPTICAL = 97%, THERMAL = 100%). IF LATES CATA GIVES	
	BIGGER SPREAD AN AVERAGE OR HEIGHTED AVERAGE MIGHT BE JUSTIFIEL	2. 12324
	THE AVERAGING OF TWO SIMILAR FACTORS IS GENERALLY REASONABLE	2329
	SINCE THE NUMBER OF TARGETS IS ALPEADY AN AVERAGE PER FIRER.	02330
	ON THE OBSCUREC PASS. SINCE ONLY THERMAL SYSTEMS CAN FIRE	
	THE THERMAL PICKET FACTOR WILL BE USED.	12332
		12333
		;2334
		17335
	ITPASS=1	12336
460	CONTINUE	ú2337
		12338
SI	DE LJOPSIDE LOOPSIDE LOOFSIDE LOOPSIDE LOCPSIDE LOCP.	. 51 2 2 23 39
		12340
	PLUE SIDE/PED SIDE LOOP	32341
		12342
	DE LOOPSIDE LOOPSICE LCOPSICE LOOPSIDE LOOPSIDE LOOP.	
		32344
	DO 910 J=1,2	22345
	JFLAG=.FALSE.	32346
	IF (J.GE. JTEST1. AND. J.LE. JTEST2) JFL AG= .TRUE.	? 2347
	IF(JFLAG)PRINT(50,462)ITPASS	22349
462	FORMAT (/1X,10 ("""),"TTPASS = ", [3)	52349
	IFIJELAGIPRINT (50,+1"SIDE = ", J	
	L*3-J	02351
	IOVE=1	02352
	KINO ="REC"	12353
	IF(J.EQ.2)KINC="BLUE"	12354
	CHECK FRIENDLY BARRAGE	32355

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FARO=DUST(JVIS.MAXR.2) 0 23560 IF (ARO(L).LT.84.) FARD=OUST(.VIS. PAXR.1) 32357: IF (ARD (L) .LT .21 .) FARD=1 . 223550 CHECK THPEAT BARRAGE 123590 TAPO = OUST (JVIS. HAXR, 2) 023630 IF (ARO(J).LT.84.) TARD=QUST(JVIS, MAXR, 1) 223612 IF (A RO (J) . LT . 21 .) TA RC =1 . USE OGHINANT EFFECT 023620 323630 AOUS T=FAFO 123640 IF (TARO.LT.FARO) AUUST=TARO 23662 C. TARGET LOOP . TARGE 23570 023680 TARGET LOOP 323799 C.. TARGET LOOP.. TARGET LOOP.. TARGET LOOP.. TARGET LOOP.. TARGET LOOP.. TARGU23713 123720 CO 900 K=11,32 123730 KFLAG=.FALSE. IFIJFLAG.ANO.K.GE.KTEST1.ANC.K.LE.KTEST21KFLAG=.TPUE. 123751 IF(KFLAG)PRINT(50.4)"***** TAPGET NO. = ",K IF(KFLAG.ANO.FDF(L).LE.C)PRINT(50.*)"NO TARGETS" IF(FOF(L).LE.C.)GO TO 890 323760 223770 12374 IFIL .ET. IA.ANO. INCUNT .EQ. 2. AND .K.LT .161GG TO 840 123790 IF (KFLAG) PRINT(50.4) "ELHT, PLOSS, PCOM, PUN = ". 1 ELHT(K, L) . PLOSS(K, L, 1) . PCOM(L) . PLN 323630 123515 ELMS=(ELMT(K.L)-PLOSS(K.L.1)) +PCOM(L) 323420 IF (ITPASS .EQ . 1) ELMTS=ELMTS*PUN(L) 223930 IF (I TPASS .EQ . 2. AND . IS MOKE (2) .NE . 2) ELMTS = FLHTS - (1 . - PUN(L))

IF (I TPASS .EQ . 2 . AND . IS MOKE (2) .E Q . 2) ELMTS = ELMTS - (PUN(L + 2) - PUN(L)) 223840 123850 IF(KFLAG)PRINT(50,-)-VICTIM ELMTS = ".ELMTS IF(ELMTS.LT.1.)GO TO 480 123960 32387: ... SET NO. OF TARGETS 223880 VISDEG=PICKET (MAXR, IVIS, 2)
IF(PICKET (MAXR, IVIS, 1) .NE.G..ANO.ITPASS.EG.1) VISCEG= 123490 123933 1 PICKET(MAXP, IVIS,1) 323910 VICTIM=ELMTS*CPERA(K-:0.L)*VISDEG*ACO(J)
IF(KFLAG)PRIN*(90,*)*VICTIMS = ",VICTIM 23936 IF(VICTIM.EQ.0.) GO TO 900 123940 IPSN=1 223950 IF (L .EQ. ID) IPSN=2 123961 IF (IPSH.EQ. 1) JPSN=2 0 23975 IF (I PSN. EQ. 2) JPSN=1 IF (L. EQ. 2) GO TO 470 23943 323990 GO TO (510,510,510,510,510,480,480,480,480,480,490,500,500,500 824986 1 888,490,500,490,490,500,500,500,500,K-1C 470 GO TO (510,510,510,510,510,480,480,480,480,480,490,490,500,500,500,500,500,K-1C C24010 124239

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10 N=1	3240
GO TO SZC	3248
30 N=2	2240
GO TO 520	3243
10_N=3	3240
GO TO 520	0240
LO Nº4	J241
20 KK=1	3241
IF (K : GT . 15) KK = 6	7241
IF(K.EQ.13.QR.K.GT.20)KK=3	1241
IF (K .GT. 24.4NO.K.NE.27) KK=2	7241
IF(KFLAG)PRINT(50.4) "VUL CAT (N). KK = ".N.KK	3241
LLat	0241
IF(L.EQ.IA)LL=2	0 241
AKTLL=1.	3241
SKILL=0.	1241
	1242
TREE LOOP. FIREE LOOP. FIREE LOOP. FIREE LOCP. FIFEE LOOP. FIFE	
	1242
FIRER LOGP	1242
	1242
FIRER LOOP. FIRER LOOP. FIRER LOOP. FIRER LGCP. FIRER LOCP. FIRE	A L000 242
	. 2565
70 439 I=11,30	3242
IFLAG=.FALSE.	0 242
IF(JFLAG.AND.KFLAG.AND.I.GE.ITEST1.ANC.I.LE.ITEST2)IFLAG=.	TRUE . C 24 2'
IF (IFLAG)PRINT (50, 1) "FIRER NO. = ".I	3243
PKILL(I-13)=1.	3243
IF(ITHERM(I-19.J).ME.2.AND.ITPASS.EQ.2)GD TO 830	32431
CHECK NO. OF TARGETS	3243
/ISDEG=PICKET(MAXR,IVIS,ITHERM(I-1(,J))	1243
IF(IFLAG.ANG.VISGEG.EQ.G.)PPINT(50.+)"FIRER CANT SEE"	3 24 3
IF(VISDEG.EQ.Q.) GO TO 833	32430
INC=11+(I-11)+4	9 24 3
IF NO AMMO, GET OUT	1243
IF(J.EQ.1.ANC.IBA~40(I-10).EQ.C) GO TC 820	1243
IF(J.EQ.2.ANC.IPAMMO(I-10).EQ.() GO 70 322	2244
IF(J.ER.Z.ANO.I.ER.Z1.ANO.HAXP.GE.5)GO TO 920	3244
IF(J. EQ.IA.ANO.IMOUN T.EQ.2.ANO.(I.LT.15.07.(I.EQ.15.ANC.J.	
1 1160 TO 920	3244.
ELS=(ELMT(I, J)-PLOSS(I,J,1))+PCOM(J)	3266
IF(ELS.LT.1.)GO TO AZI	0244
; F(J. EQ. 1) KT=[-10	37661
IF(J. EQ. 2) K*=I	1244
PF(I.GE.21.ANC.J.EC.1)KT=3	0.244
IF(J.E9.1.AND.KT.GT.10)GO TO 820	3244
IFIJ.EG.2.ANG.KT.EG.201GQ TO A20	1245
IF(J.EQ.2.ANO.KT.EQ.25)KT=15	1245

	I NX=1	1245
	IF(I.GE.16.ANO.I.LE.23.ANO.K.GE.16.ANC.(K.LE.23.OR.K.E7.33))	3245
1_	INX#2	22456
	IF (J. EQ. 1. AND. I. GE. 21. AND. I.L E. 37. ANG. PARR. GT. 31 INX=2	3245
	IF(J.EQ. 1. ANO. I.GE.21. ANO. I.LE. 30. ANC. K.GE. 16. ANT. K.LE. 29. AND.	3 245
1	YAXQ.LE.3) INX= 2	02457
	[F(J.EQ.2.AND.I.GE.21.AND.I.LE.30.ANC.MAXQ.GT.1)INX=2	32451
	IF(J.EQ.2)GO TO %40	3245
	If(I.LT.16.0R.I.GT.2C)GO TC 530	1246
	LUE	3246
TANK	FIRER	3246
	I SUP 1	3246
	ITYP= ISANHO(I-10)	32464
	IF (N.EQ.1.AND.I.EQ.16) ITYP=1	12469
	IF(N.EQ.1.ANO.I.EQ.17) ITY9=1	3246
	IF(N.EQ.1.ANO.I.EQ.19) ITYP=7	3246
	IF(N.EQ.1.AND.I.EQ.19) ITYP#4	3245
	IF(N.EG.1.AND.I.EQ.29) ITYP=1	0246
07450	30 TO 560	1247
	THAN TANK FIRER	3 247
53G	CONTINUE I SUP= 2	1247
	ITYPE IBANNO (I-10)	5247
	IF(MAXR.LE.3.AND.N.NE.1.ANC.(I.EQ.21.CF.I.EQ.26.GR.I.EQ.29))	3247
•	1146=13	1247
	GO TO 560	3247
RE		0 24 7
	K FTGER	32479
540	CONTINUE	3244
	IF(I.LT.16.0R.I.GT.19) GC TO 550	3248
	ISUP=1	3243
	17Y9= IRAYNO (I-10)	3243
	IF(N.EQ.1.ANC.I.EQ.16) ITYP=1	1248
	IF(N.EQ.1.4NO.I.EQ.17)	3243
	IF(N.EQ.1.ANC.I.EQ.18) ITYP=3	2248
	IF(N.EQ.1.ANG.I.EQ.19) ITYP=5	2248
	GO TO 550 THAN TANK FIRER	3248
		2244
550	2 ONTI NUE	3249
	[\$U0= 2	22491
	ITYPE IRAMMO(I-10)	1249
	IF(MAXR.LE.2.ANO.N.NE.1.ANO.(I.EQ.21.GP.I.EQ.28)) ITY#=7	249
560	IF(MAXR.LE.1.AND.N.NF.1.AND.I.EQ.22) ITYP=7 IF(I.LE.15)ISUP=3	_32494 -62494
744	BN2HK=BNN(7)	3249
	IF (ITHERM (I-10.J).EQ. 2.4 NO. IS MOKE (;) . NE. 2) PNSMK=FUN(L)	1249
	IF(ITHERM(I-10, J).EQ.2.4 NO.ISHOKE(2).EQ.2)PNSMK=PUN(J+2)*	3249
1	Pun (L) / Pun (L +2)	2249
	r with the recount the right	

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125000 125010 IF (ITPASS . EQ . 2 . AND . ISHCKE (2) . EQ . 2) FN SHK= FUN (J+2) * (1.-PUN(L)/PUN(L+2)) 125121 IN-ELS-OPEPA (I-10, J) PHSHK 225030 IAMBINC+INX+1 025040 IF (K.EQ. 22 . AND . L. EG. 1) KK=2 125050 IF(ITPASS.EQ.1) XFDF=FDF(L)-PUN(L)
IF(ITPASS.EQ.2.ANO.ISMCKE(2).NE.2) XFDF=FCF(L)-(1.-PUN(L)) 025050 FIPEZ=FIRE (MAXA, KT, ITHER P(I-10, J)) 125190 IF(ITHERM(I-10.J).EQ.11GO TO 565 025110 IF (PUN(1).NE.1..CR.PUN(2).NE.1.) GO TO 555 325110 CHANGE THERMALS TO OPTICS IF NO SHOKE PRESENT 125130 025148 FIRE1=FIRE (HAXR, KT,1) 0 25 1 50 925160 IF (FIRE1.LE.FIRE2) GO TO 565 IF (PICKET (MAXR, IVIS, 1) .EO. 0.) GO 10 565 0 25 1 70 FIRE2=FIRE1 1251.81 555 325190 CONTINUE IF (IENGAG.NE.1.ANC.J.EC.ID) FIPE 2 : FIRE 2 FCX (MAXE, ITEREN) 125200 SUP=1 .-SF (J) -SUPCEG(ISUP) 125213 IF (SUP.LE. .2) SUP= .2 ROUNDS=FIRE2-SUP+ELMTS+ 12523C SPERA (K-10.L) THTS (KK.LL) /XFDF IF (ROUNDS.LE.D.) GO TO A20 25 240 25 25 C 420,710,629,719,820,920),I-19 125263 ALLONS PLAY OF SUICE INSTEAD OF JSU152 325290 GO TO (690,670,660,820,770,650,650, 420,720,820,700,700,750, 790,730,740,750,700,820,740).1-10 125301 570 125313 J 25 32C 580 4=1 GO TO 900 325330 325340 M=2 590 GO TO 800 325353 125361 4=3 60 TO 800 600 325370 610 4=4 0.25 38 C 30 TO 500 J25390 125411 620 SQ TO 800 725410 025423 630 M=6 GO TO 488 2 25 431 4=7 225440 __640 30 TO 800 0.25450 4=9 25460 650 30 TO 688 12547:

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660	₩æQ	325480
	60 TO 800	325490
670	4=10	125500
	60 TO 800	225510
680	N=11	125520
	60 TO 500	0 255 30
698	N=12	125543
	SQ TQ 800	125550
700	N=13	125560
	GO TO 800	0 25573
718	Y=14	125541
	SC TO 800	325593
720	4=15	225600
	30 70 800	725613
730	4*16	125620
	\$0 TO 800	225630
740	M=17	0 25540
	30 TO 800	125651
750	4=18	225660
	5 0 TO 300	25673
760	M*19	225680
	30 70 800	125590
770	M=20	225720
	\$0 70 800	025710
790.	1=21	125720
<i></i>	GO 70 802	325730
790	H=22	025740
800	IF(J.EQ.Z.ANG.I.EQ.Z1.AND.MAXR.LE.2) 4=10	325750
•••	NBR=INDEX5 (2, MAXR, N, M, 0, 2, 6, 4, 9)	25760
	IFIND=(NaR-1)/32+1	225772
	CALL READMS(3.SSKP.32.IFIND)	125790
	I NCX= NBR-(NBR/32-32)	725790
	IF (INCX.EQ.0) INCX=32	125800
	SS=SSXP(INDX)	J 25813
	IF(L.EQ.ID)SS=SS=2.	125820
	IF(K.EQ.22.ANO.L.EQ.1) N=3	3 25 9 30
	NBR=INDEX5(1,MAXP,N,M,0,2,6,4,0)	125940
	IFINO=(NBR-1)/32+1	2545
	CALL PEADMS (3, SSKP, 32, IFINC)	325960
	! NO X= NBR- (NBP / 32 32)	225872
	TF(INCX.EG.G)INCX=32	125880
	SSS=SSKP(INOX)	125890
	IF(L. EQ.IA) SSS=SSS-2.	125901
	SS=(SS2SS)/3.	125910
	INCREASE VUL OF OLD TANKS	125920
	[F(K.LT.17.0R.K.GT.20) GO TO 810	25930
	IEW ARMOR FULLY USES	225940
	IF(J.EQ.2.4ND.K.EQ.19.4ND.LAPFCR.EG."Y")GQ TO 310	125353

		3 25963
	IF(J.EQ.1.ANO.I.EQ.19) SS=2*SS	2597
	IF(J.EQ.1.AND.I.EQ.19) SS#SS+.1	125941
	[F(J.EQ. 2.AND.I.GE.15.AND.I.LE.20) SS=SS+.1	325990
_810	CONTINUE	926993
		226013
<u> </u>	S\$#\$\$*2	326323
C	IF(9S.GT.1)SS=1	326030
•	IF(SS/VICTIH.GT.1.)GQ TQ 420	0 25 0 40
	IEYE*1	2675
	IF(J.EQ.ID)IEYE=2	126160
	ABORT=1.	226970
	IF(J.EQ.1.AND.ITYP.GE.8.ANG.ITYP.LE.111A8GGT=AGUST	325380
	IFIJ.EQ.2.ANC.ITYP.GE.9.ANO.ITYP.LE.91A80PT=AGUST	226090
c	DEGRADE FOR FALSE TARGETS	325100
<u> </u>	If(J.EQ.1) ABORT = AB CRT + .7	325113
Ğ	[F(J.EQ. 2) A90PT=A90FT4.3	0 26 1 20
<u>. </u>	AF \30 C24 C7 ~ 30 ~ 1 ~ 2 7 0 m.)	026130
•	BUTEL IT 4 0 1474 COLUMN AND THE AND VINEAR POTAGOLISMOST 1	026140
	#KILL(I-10)*(1SS/VICTIM)**(XN*ABCRT*ROUNDS*1.) AKILL*AKILL*FKILL(I-10)	126153
		125163
	SKILL = SKILL + (1 PKILL (I - 10))	u 25150 325170
	SHOTSV(ITYP,J)=SHOTSV(ITYP,J)+XN*RCUNCS IF(IFLAG)PPINT(50,*)*PKILL,SHCTSV = ",PKILL(I-13),	J2518C
<u>1</u>		026193
ı	SHOTSV(ITYP,J) IF(J.EQ.1)AH(IAM)=AH(IAM)+XM*ROUNDS	326200
	IF(J.EQ.1) AH(INC) = AH(INC) + (1 - CPERA (I-1 C, J) + PNSHK+PCO+(J))	225 21 3
-20		326 220
820	CONTINUE	026230
830 C SNO	OF FIRE LOOPEND OF FIRER LOOPEND OF FIRE LOOPEND OF FIRE	
	OF FIRE COUPLENC OF FIRE COUPLENC OF FIRE	3 25 250
c _		
	KILL=(1AKILL)-VICTIN	126250
	F(RFLAG)PRIN*(50,*)*TKILL, AKILL = ", TKILL, AKILL	225270
	FITKILL.LE.O.)GO TO ENO	126 383
_ 1	F(SKILL.LE.O.)GO TO BAC	326290
<u> </u>		326 300
G×	ILLS ALLOCATION LOOP	3 26 31 3
C		26 320
-	0 870 I=11,30	026330
1	FLAG=.FALSE.	25 347
	FIJFLAG.AND. KFLA (.ANC.I.GE.ITEST1.ANG.I.LE.ITEST?) IFLAG = .TRUE.	126351
	F(IFLAG)PRINT(50.*)"FIREF NO. = ",I	0.26.360
	KILL=TKILL *(1PKILL(I-10))/SKILL	3 26 37 ;
	KILL=IFIX(AKILL+10.+.51/10.	26 181
	LOSS(1, K)=ALOSS(1,K)+IFIX(AKILL=10.+.0(1)=PACK(L)	025390
	LOSS(K, L, 2) = FLOSS(K, L, 2) + IFIX(AKILL - 10 . + . 001) / 13 .	125430
1	F(K.GT.15)GO TO 840	125411
	LOSS([,3)=4LOSS([,3)+IFIX(4KILL-4TCPEH(K-13)-13.+.CC1)-PACK(L)	225427

IF(K.LT.13)GO TO 460 3 25 440 3 25 450 25460 126470 IFII HOUNT . EQ. 1. OR . L . ET . TO 1 GO TO 468 025480 AKTLL=AKILL 46. 126 496 00 651 KK=3.15 IF (ELMY (KK.L) .LE.0.160 TO 850 026503 2651C ALOSS([,KK] =ALOSS([,KK] + IFIX(AKILL + FL T(KK) + 10. + .0(1) + PACK(L)
PLOSS(KK,L,2) = PLOSS(KK,L,2) + IFI + (AKILL + FL T(KK) + 10. + .01) / 10. 125520 26530 850 CONFINUE 026540 868 IF(IOV2.EQ.Q)PRINT +, "OVLYZ-Z I.AKILL, ALCSS, PLCSS " 126550 1 11,4KILL,4LOSS(I,K) PLOSS(K,L,2) 025560 126570 C. END OF KILLS ALLOCATION LOOP .. FNO CF KILLS ALLOCATION LCCP. . ENC OF KID 26580 125590 888 IF(IOV2.EQ.0)PRINT *, "OVLY2-3 L.IA.IMOUNT.K.ELMT.PLOSS.PGOM, PUN 1 ".L.IA.IMOUNT.K.ELMT(K.L), PLOSS(K,L.1), PCOM(L), FUN(L) 2 .TKILL.SKILL 025600 125511 125620 498 CONTINUE 900 CONTINUE C. END OF TARGET LOOP. END OF TARGET LOOP. END OF TARGET LOOP. END OF 325640 TA325652 126663 910 CONTINUE 226679 C.END OF SIJE LOOP..END OF SIDE LOOP..END OF SIDE LOOP..END OF SIDE LOOD 26643 ITPASS=ITPASS+1 IF(ITPASS-E9-ZIGO FO 468 26702 026713 C. END OF OBSCURATION LOOP. END OF DESCURATION LOOP. END OF DESCURATION 125725 125730 326743 928 00 1839 J=1.2 2675 IFLAG2=0 26764 00 1000 I=1,32 25773 126783 TNX=1 PLOSS(I, J, 1) = PLOSS(I, J, 2) +PLOSS(I, J, 1) 26793 IF (PLOSS (I. J. 1) LE ELHT (INX, J) JGO TO GG Q PRINT +, "ALL OF ELHT ", INX, " IN FORCE ", J." HAVE BEEN KILLED" 125310 12681: 00 950 K=11,30 BLUE=IFIX(ALOSS(K,INX)/PACK(1))/10. 126420 2583C RED= (ALOSS (K, INX) - IFIX(ALCSS (K, INX) / PACK (1)) + PACK (1)) / 11.
IF (J. EQ. 2) GO TO 930 25440 125355 BLUE = IFIX (BLUE * ELMT (INX. J)/FLOSS (I.J. 1) *10.+.5)/10. GO TO 940 125360 2687 930 RED=IFIX (RED+ELMT (INX ,J)/PLOSS(I , J, 11+10.+.51/13. J 25 8 8 7 126891 126901 940 ALOSS(K.INX)=8LUE*PACK(1)*10.+RED*10. 950 CONTINUE PLOSS(I, J. 1) = ELMT (INX,J)

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_960	PLOSS(Taulaz) = 1.	126925
	IF (PLOSS (I, J, 1) .LT1)GO TO 1003	126930
	IFILFLAG2.EQ.1)GD TO 980	52694:
	PRINT 4, " "	3 26950
	KINO="RED"	026960
	IF(J.EQ.1)KINO="BLUE"	125970
	IFCIRUN.NE.11 PRINT 970.KINO	126950
	FORMAT(" ",1x,44," LOSSES TO THIS POINT",/,7x,"ITE4 + LOST")	12699C
980	TKILL=PLOSS(I,J.1)	127:30
	IF(IRUN.NE.1) PPINT 990.INX,TKILL	327313
990	FGRNAT (" ",7X,12,5X,F6,1)	327320
	IFLAG2=1	127130
1030	CONT INVE	327543
	NHQ= NHQ+ 7	027050
	<u>60 F0 21 6</u>	127363
5	OUTPUT RESULTS.	327373
1010	IF (IRUN. EQ. 1) GO TO 1130	227190
	PRINT 1020	927292
1020	FCRMAT ("1")	32710C
	PRINT ", " ARM CR ASSESSMENT'S	027113
	PRINT 1030	0 27 1 23
1030	FORMAT (" I", 25%, "I")	127133
	00 1120 J=1.2	27145
	L=1	\$ 27150
	IF(J.EQ.L)L=2	_327160
	IFLAG2=0	327175
	00 1110 K=1.32	0 27 1 8 0
	AKTL L=PL GS (K, L, 1)	327193
	clost=0.	927295
	IF(K.LT.16.ANT.K.NE.13) 60 70 1340	027210
	CLOST=AKILL+CPEWS(K-17,L)	027225
1046	IF(AKILL.LT1.AND.CLOST.LT1)GO TO 1110	327230
	IF(IFLAG2.EQ.1)GO TO 1070	327240
	IF(J.EQ.2)60 TO 1050	327250
	PRINT 1 TOTAL RED LCSSES IT	727260
	GO TO 1868	327275
1050	PRINT . "I TOTAL BLUE LOSSES I"	127267
1060	IFLAGZ=1	027290
	PRINT ","I ITEM & LOST CREW I"	327300
	PRINT 1030	327310
1077	IF(K.LT.16.ANO.K.NE.13) GO TO 1080	327323
	PRINT 1100.K. AKILL.CLCST	227333
	GQ TO 1110	0 27 340
1080	PRINT 1090, K. AKILL	12735
	FGR4AT(" [", 6x, [2, 3x, F6.1,10x, "[")	22736
1100	FQ9MAT(" I",4X, I2,F9.1,F6.1,4X,"I")	127371
	CONTINUE	127 151
	PRINT 1J30	2739

227402 327613 127<u>4</u>23 127435 3<u>27440</u> 227450 1130 IF (IRUN.EQ.1) PRINT "," AR HOR ASSESSMENT PRINTED MERE"
CALL CLOSMS (3) 27460 927473 027460 127490 INX= 0 CALL LOSS(11,30,1,32,INX)
IF(INX.EQ,"YES")CALL CK:TOR(AM1,IPUT) J27500 027513 IPUT=-1 AH1="INPUT 2" 127520 127533 CALL CKSTOR (AH1, IPUT)
00 1135 T=7,90
AH(I)=ARRAY(I) 327549 327553 027560 227572 1135 CONTINUE CALL CKSTOP (AH1, IPUT)
C....TRANSFER CF SP 122 HEAPONS BACK TO CRIGINAL ARRAY 027593 27590 1140 ELMT (50, 2) = ELMT (50, 2) + ELMT (25, 2) ELMT (25, 2) = 0 00 1153 I=1, IMAKKV ALOSS(I, 50) = ALOSS(I, 50) + ALOSS(I, 25) 327630 327613 327623 127632 <u>127640</u> 027650 ALOSS(I.25)=0 1150 CONFINUE G 1160 FORMAT (" INCORRECT - RESPONSE AUST BE GE (.3 AND LE 1.0") 127660 127670 127681 M-99

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SUBROUTINE INFANT COMMON IA, TO, IT, IENGAG, ITERRN, IVIS, INCUNT, MINES, CEPE, FSFEE, FP2. 127729 ATTHE IFIRST . IPUN . NORC . FHASS . IMAXKY . 2 SF(2).FSSF(2).PAGK(2). <u>1 ELMT(AG.2).ALOSS(66.66).SHOTS(55.2).GKILL(53.2).SHOTSV(55.2)</u> COMMON/REED/JOAY1,XIN)(4).ICARD(20).IARMOR 027730 027740 027751 COMMON/DATA/FPS (80.2) .GREHS (53.2) .APOS (12) .CPOS (6) . ITHERH (20.2) . 1 PSN (6,2,2) .PLT (15) .KEY (171) 127750 927779 COMMON/ONE/LFIT(35).ARRAY(90).MY9UF(1024).D(80.2).ACI. 027790 \$27790 COMMON/IHREE/IHIST(35).AH(90).I \BUF(1024)
DIMENSION GFPS(2),TABLE(7,2,4),STALE(5),FAC(2) 327800 327910 327920 327830 DIMENSION F(2) QATA (((TABLE(I.J.K).J=1.2).I=1.7).K=1.4)/ 127845 1.12..05..08..06..06..06..05..08..05..08..05..09..04..10..09..06..0027850 25..35..04..07..06..07..03..09..03..10..02..11..08..05..35..05..04..027860 3.06..03..16..03..08..02..09..02..10..08..02..05..05..05..05..05..027876 44..83..05..02..06..02..36/ DATA (STALE(I),I=1.4)/1..2..2.6.3.1/ 327990 DATE ((TABLES(I.J).J=1.2).I=1.5)/10..20..20..15..35.,10..51..5., 127900 770..2./ 1 70. ,2./ ARRAY(4)=75 <u> 27925</u> 127930 ARRA Y (5) =90 12794 00 90 1=6,99 96 ARREY(I)=0 127950 100 PRINT + "CO YOU WISH TO PROCESS INFANTRY ASSESSMENTS?"

CALL RECCA(INX)

IF(INX.EQ."Y")GO TO 110

IF(INX.EQ."N")GO TO 510 27760 32797: 22798 327993 GO TO 186 924933 INFANTRY ASSESSMENTS" 029013 PRINT .. -0 29 9 23 0 28 6 30 ARRAY(75)=1 120 CO 160 J=1.2 KINC="BLUE" 2904 325352 IF(J-EQ-2)KIND="RED" 32806:
130 PRINT 140-KIND 329370
160 FORMATIT ENTER FRACT OF ",A4," MANEUVER FORCES COMMITTEC(MAX 1.)" 308090 228090 CALL REET F (J) =XINX(1) 23132 APPAY (75+J)=F(J) 728113 TFIF (1) GT. 0.. ANO. F(J). LE.1. 1GO TO 160
PRINT 150
150 FORMAT("INCORRECT RESPONSE - TRY AGAIL") 029123 328130 328143 329150 GO TO 130 29160 160 CONFINUE 170 PRINT ", "DO TANKS SUPPORT THE DISHOUNTED INFANTRY IN THIS SECTOR" 328173

CALL REEDA(INX)	3281
IF(INX.EQ.~Y~)ARRAY(76)=1	3281
IF(INX.EQ."Y"1GQ TO 210	3282
IF(INX.EQ."N")GO TO 210	1292
GO TO 173	3282
10 INDEX=9	3282
IF(INX.EQ. "Y")INDEX=15	3282
AIL= 0.	3 28 2
CIL=0.	3252
00 220 IEL=1,2	1252
GFPS (IEL)=0.	1282
FAC(IEL)=1.	1282
IF(ELMT (3.IEL) → F (IEL) .GT.72.) FAC (IEL) = 2.	2293
DO 220 I=6,30	3 25 3
IF(INX.EQ. MM.ANO.I.GE. 16.ANO.I.LE.20)GO TO 223	3293
GFPS (IEL)=GFPS (IEL)+ELMT (I,IEL)+FPS(I,IEL)	3 28 3
20 CONTINUE	1253
IF(GFPS(ID).GE.1.)GO TO 230	3293
PRINT . "THERE ARE NO DEFFN CEPS ASSESSMENTS CANNOT RE "AJE."	3283
GO TO 510	2253
30 PPINT +, "ENTER 4 HOURS OF INFANTRY ATTACK (HAY = 6.)."	1283
CALL REEDS	1283
HR=XINX(1)	1254
ARRAY (79)=HR	3254
HRC= HP	3284
IF(HP.GT.OANO.HR.LE.6.)GO TO 240	6284
PPINT 15G	;294
GO TO 230	5284
40 PRINT 4, "ARE AMBUSH TACTICS BEING EMPLOYEC"	2284
CALL REEDA (INX)	3294
IF(INX.EQ."Y") ARRAY(80) =1	0284
IF(INX.EQ. "Y") GO TO 360	C 284
IF(INX.EQ. "N")GQ TQ 250	2255
GO TO 240	2 295
50 GFPR=GFPS(IA) APOS(IP)/(GFPS(ID)+DPOS(IENGAGI)	2285
CO 260 T=1,6	5285
IFIGFPR.LE.I 51GO TO 270	1235
60 CONTINUE	3295
Ţ#7	3285
70 INX=I	2255
GO TO (300,310,310,280,290,290), IENGAG	2295
90 I=1	J 285
GO FO 320	3296
90 1=2	3286
GO TO 320	1296
00 1=3	2235
GO TO 320	<u> </u>
10 1=4	32×6

20 HR=MRC	0 29 50
IF(MR.LE.G.)GO TO 430	1256
IFLAG# 0	5 286
ATRIT=TA9 LE (INX, 1, I) / FAC (IA)	3 2864
DTRIT=TABLE(INX,2,1)/ FAC(ID)	2267
38 IF(IA.EQ.1)GO TO 340	3257:
ATSELHT(3.2) OF(2) -AIL	1297
OT=ELHT(3,1)*F(1)-OIL	0287
GO TO 350	
40 AT=ELMT(3,1)==(1)-ATL	3267
CT=ELNT(3,2)*F(2)-OIL	2979
50 AIL=AIL+AT=(1(14TAIT)+=HR)	2297
OIL=DIL+CT*(1(1OTRIT) ** HR) IF(IFLAG.NE.0)GC TO 250	2257°
GO TO 430	0299
60 HPC=HR-1.	3299
IF (MR. GT.1.) MF=1.	1288
PRINT 4. "IS BLUE AMBUSHING RED"	0.288
CALL REEDA (IFLAG)	
IF(IFLAG.EQ."Y")GO 10 370	1269
IFIIFLAG.EQ."N")GO TO 3AG	3299
Gú TO 360	0 264
70 GFPR=4.5-GFPS(1)/GFPS(2)	1286
IAA= 1	G 258
GQ TO 39Q	1289
80 GFPR=4.5-GFPS(2)/GFPS(1)	0 269:
IAA=2	
90 00 400 I=1,4	3 289
IF(GFPR.LT.STALE(I))GO TO 410	32894 12899
OO CONTINUE	32890
[=5 10 A=TA BLE3(I.2)/100.	0289
OF=FABLE3(I,1)/100.	3259
IF(IAA.NE.IA)GO TO 420	1259
ATRIT=4	1290
OTRET=OF	1291
GO TO 330	0290
20 ATPLT=OF	1296
OTRET=A	
GO TO 330	3 290
30 IF(TRUN.EQ.1)GO TO 500	1290
PRINT +, "+INFANTRY ASSESSMENTS+"	1291
40 FORMAT (" I", 26x, "I")	2290
00 490 J=1,2	3 290
PRINT 44.0	G291
IFLAG#1	291
KIND="9LUE"	\$ 291; 3291
L=1	2541

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IFIL .NE. JIGO TO 451 KIND="REC" 129140 329150 129163 129170 458 00 498 I=1,INDEX IF(ELHT(I.L).LE.8.)GC TO 498 329190 A=AIL 029190 IF (L.Eq. ID) A=OIL IF (I.Eq. 2.OR.I.Eq. 4.OR.I.Eq. 5150 70 490 129203 329210 IF(I.EO.7.AND.L.EG.2)GO TC 490 A=A+PL*(I) 229220 629230 A=IFIX(A+10.+.5)/10. 0 29 243 ALOSS(3,1)=4LOSS(3,1)+IFIX(A-13.+.321)-PACK(L) 329250 IF(A .LT. . 1) GO TO 490
IF(IFLAG .EQ. 1) GO TO 470 329260 329273 PRINT 460,KIND
460 FORMAT(" I",3%,84,1X,"INFANTRY LOSSES",3X,"I")
PRINT =,"I ITEM #LOST :" 129280 129290 158205 IFLAG=1 32931; 470 PRINT 480,I,A 480 FORMAT(" I",5X,I2,7X,F6.1,6X,"I") 129 320 129 33: 498 CONTINUE 129341 129357 029360 500 IF (IRUN.EQ. 1) PRINT +." TOTAL INFANTRY LOSSES PRINTED HERE" 029370 INX= 0 029380 CALL LOSS(3,3,1,15, INX) 0 29 390 129430 AH1="INPUT 36" 129418 129425 129430 IPUT =-1 CALL CKSTOR (AH1. IPUT) IF(INX.EQ."NO")GO TO 519 NO 505 I=75.90 329440 329450 505 AH(I)=ARPAY(I) 129460 CALL CKSTOR(AH1, IPUT) 29470 129485 510 END M-103

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SUBROUTINE MINE	02950
COMMON 14,10, IP, IENGAG, IT ERRM. IVIS, INCUNT, MINES, CEPE, ESEPE, EPE,	12951
1 ATT NE . I FIRST . IRUN . PORO . FMASS . IMAXKY .	32952
2 SF(2),FSSF(2),P4CK(2),	0 295 3
3 ELMT(40.2) .ALOSS(66.66) .SHOTS(55.2) .CKILL(53.2) .SHOTS(55.2)	3 295 4
COMMON/REED/JDAY1, XINY(4), ICAFD(20), IARMOR	0 2955
COMMON/DATA/F 25 (30.2) . CRE 45 (51.2) . A FOS (12) . CPOS (6) . ITHEF M (20.2) .	12956
1 PSN (6.2.2) .PLT (15) .KEY (171)	02957
COMMON/THREE/IHIST(35).AH(90).IY9UF(1024)	12954
DIMENSION ATOEN(5), ATFAC(5), HRREO(5), FLGSS(32, 2, 2)	3 2959
DATA (ATDEN (1) . J=1.5) / . 2 . 5 . 1 . 2 . 3 . /	12960
DATA (ATFAC(J).J=1,5)/.J9igf2f375/	32961
DATA (MRRED(J) . J=1.5)/3+234 279 323	0 296
10 FORMATI" NUMBER NOT WITHIN DOCTRINES ECUNCARY - TRY AGAIN")	0 296 3
AH1="INPUT 4"	32950
IPUT=-1	22969
CALL CKSTGR(AH1.IPUT)	12960
N1=11	02963
AH((0) *10	1295
40 PRINT +, "DO YOU WISH TO PPOCESS FINE ASSESSMENTS?"	12959
CALL PEECA (INX)	1297
IF(INX.EQ. "Y") GO. TO 153	3297
IF (INX.EQ. "N") GQ TO 632	0297
GQ 70 140	3 297 : 0 2 9 7 0
50 PRINT + "SELECT TYPE OF MINE EMPLOYMENT"	1297
CALL REED4	1297
IND=XINX(1)	2297
IF(N1.LE.90)AH(N1)=INC	3297
IF (I NO. EQ. 1) GO TO 190	2297
IF(ING.EQ.2)GO TO 170 IF(INO.EP.0)GO TO 620	3298
IF(INO.EO.999)GO TO 160	1294
PRINT 110	0299
50 PRINT +, "FOR CONVENTIONAL MINESENTER 1"	2298
POINT +, " FASCAM MINESENTER 2"	0 296
PRINTTO ENCENTER 0"	3298
60 TO 150	1294
7.37	3294
ASSUMES DEFENDER EMPLACED MINFIEL (S	1298
	7298
70 CALL FASCAM(PLOSS)	6299
GO TO 15 C	3 299
AO KIND="BLUE"	299
IF (10.60.2) KINO="REO"	3 299
IOK= 0	2 299
IF (N 1 +12 .GT . 90) IQY=1	1299
PRINT . "ARE MINES LAID PRICE TO COMMENCEMENT OF MOSTILITIES?"	2 299
CALL PEECA (INX)	1299

IF(INX.EQ. TY")GO TO 190
IF(INX.EQ. TH")GO TO 200 1299AC 02999C GO TO 180 130300 030010 190 HDESF=.9 GO TO 205 200 WOEGF=.7 03033: 205 TF(TOK.LE.0) 4H(N1+1) = HCEGF 210 PRINT 220, KIND 333340 210 PRINT 220, KIND
220 FORMAT(" WILL ".44," HAVE THE CAPABILITY TO EMPLOY MECHANICAL".

1 " MINE PLANTERS?") 330350 030060 030070 CALL REEDALINX) 030386 IF(INX.EQ. TYT) GO TO 230 330090 IF(INX.EQ."N") GO TO 289 G30190
GG TO 210 03G110
230 PRINT - "ENTER NUMBER OF MECHANICAL MINE PLANTER PLATCONS (MAX 30103G120 330130 030143 MECHANICAL EMPLACEMENT OF MINEFIELD CALL REEG4 BHPL=XINX(1) 130160 IF (IOK.LE.8) AH(N1+2) = 3HPL 030170 IF (BMPL.GE.1.ANO.9MPL.LE.30) GO TO 240 030190 GO TO 230 0 30 200 240 FRINT *, "ENTER NUMBER OF AVAILABLE MINE PLANTER HOURS (MAX 300)" 339210 CALL REEDS RNMPH=XINX(1) TF(TOK.LE.0)AH(N1+3)=2NMPH TF(RMMPM.GE.1.AMD.PMMFM.LE.300)GO TO 250 330240 0 30 250 30260 PRINT 110 13627: GO TO 246 250 IF (KINO. EQ. "REO") GO TO 260 330283 HOURS=6. 330293 STRIPH=2000. 130303 GO TO 270 33331: 260 HOURS=2. 036323 STRIPW=1000. 23033C 270 FRONT= (BHPL -QMMPH-HOEGF) /HOUPS -STRIFH 230342 230350 J=2 GO TO 340
200 PRINT + "ENTER NUMBER OF HEN USED TO EMPLACE MINES (MAY 1300)" 030360 130370 CALL REED4 NUME N=XI NX(1) 330 38C 13939: IF(IOK.LE.0)AH(M1+4)=NUHEN IF(NUMEN.GE.1.AND.NUMEN.LE.1000)GO TO 290 330400 336410 130 423 PPINT 110 GO TO 240 33043: 290 PRINT *, "ENTER HOLRS AVAILABLE FOR EMPLACEMENT OF MINES (MAY 300) "03044: CALL REEC4 \$30450

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HEMAN=XINX(1)	0.3046
IF(IOK-LE-0)AH(N1+5)=HRMAN	333479
IF (HRMAN-GE-1 -AND-HRMAN-LE-IDC) GC TO 300	23048
PPINT 110	330493
<u>60 70 290</u>	<u> </u>
300 PHR=NUMEN+HRMAN+HDEGF	33051
310 PRINT -, "SELECT MINEFIELD DENSITY"	<u> </u>
CALL REED4	23053
J=XI NX (1.)	130 54
IF(IOK-LE-0)AH(N1+6)=J	23055
IF(J.EQ. 999)GO TO 320	03056
IF(J.GE.1.AND.J.LE.5)GO TO 330	03057
PRINT 11 0	13958
320 FRINT +, "FOR JENSITY .0013 HINE/SO HETERENTER 1"	338593
PPINT 4." .3033 MINE/SQ METERENTER 2"	<u>1305</u> 0:
PRINT +," .0 Q66 HINE/SQ METERENTER ?"	330613
PRINT" .0130 HINE/SO METERENTER 4"	13062
PRINT "." .3210 NINE/SQ WETERENTER 5"	03053
GO FO 310	230643
330 FRONT=PHR/HRREQ(J)+103.	93065
FRONT=IFIX(FRONT 6.5)	13066
IF(IOK-LE-0) 4H(N1+7) = FRONT	330679
340 PRINT 350 FRONT	1306 P
350 FORMAT(" POTENTIAL MINEFIELD FRONTAGE IS ".F8.0)	130699
PRINT 4. "	03070
PRINT +, "ENTER ACTUAL ME FRONTAGE (MAX=POTEM TAL)"	33971
CALL REECA	07072
AFRONT=xinx(1)	33073
IF(IOK.LE.0)AH(N1+5)=AFRONT	33074
IF(AFRONT.LE.FRONT)GO TO 360	03075
PRINT 110	33076
GO TO 340	3 30 77
360 FRONT=AFFCNT	330741
370 PRINT +, PENTER FRACTION OF MINE FIELD NOT SYPASSES BY ATTACKET	(M #23379)
1 X = 1. (1) "	3338C
CALL SEER	23081.
PHENBY=XINX(1)	33382
IF (IOK.LE.0) AH (N1 +9) = PHFNBY	33383
IF(PMFN8Y.EG.999)GO TO 380	0.30 940
IF (2 MFNB Y .GE. G AND .PMF NB Y . LE. 1.) GQ TQ 390	23285
	93696
3AO PRINT . FOR EXAMPLE: O. HEANS ALL OF THE MF CAN BE EYPASSED"	33347
PRINT . "OR. 1. HEANS NONE OF THE "F CAN BE BYPASSED"	33299:
GO TO 370	33599
390 FROSY=FRONT*PHENSY	33090
PRINT 400.FROSY	13091
400 FORMATIM ENTER AMOUNT OF TRAFFICABLE TEFRAIN (",F8. 5,"-13000).	
	13093

REE D4 130940 TRZONE=XINX(1) 130953 IF (IOK.LE. Q) AH (N1+10) =TPZONE IF(TRZONE.GE.FROBY.AND.TRZONE.LE.100000) GO TO 419 PRINT 110 130940 GO TO 390 030993 410 PRINT *. "ENTER AP MINE DENSITY (SQ METER) - (MINE.C13-MAX=.163)" 031007 CALL REED4 331913 X=XINX(1) 031020 IF(LOK.LE.0) AH(N1+11) =X IF(X.GE..(13.ANC.X.LE..160) GO TO 420 331330 331340 PRINT 110 331350 GO TO 419 031060 331370 420 INX= X-15C. SHOTSV(16.10) = SHOTSV(16.10) - 1X-150-FRONT 331090 INX=INX/4+1 131090 PERCAS=(INX+1)/10 031193 PERCOV=(FRONT+PHENBY)/TRZCNE 331110 IF(PEPCOV.LE.1) GO TO 430 PRINT -, "PERCENT OF ZONE COVERED MUST BE BETHEEN ZEFC(0) AND" 931120 031130 PRINT *, "ONE(1) - CHECK THE TRAFFICABLE ZONE DEFENDED TO SEE"
PRINT *, "IF IT IS LAFGER THAN THE RESULT OF HULTIFLYING HE"
PRINT *, "FRONTAGE TIMES PERCENT OF HE NOT BYPASSEC" 331140 031150 031160 GO TO 390
430 PRINT *. "ENTEP PERCENT(MECHAL) OF FORCES ENTERING MF(MAX*.5)"
CALL REED4 031170 331180 331190 PEXINX(1) 331200 IF (IOK-LE. 0) AH(N1+12) =P 031213 IF (P.GE.C..ANO.P.LE..5) GO TO 440 031223 PRINT 110 31235 GO TO 430 440 CO 500 K=1,32 31250 IF(E,T.16.4NO.K.NE.3)GO TO 500
IF(K.LT.16.4NO.K.NE.3)GO TO 500
IF(K.20.3.4NO.INGUNT.EQ.2)GO TO 500 031260 33127: 31290 IF(<.NE.3)GO TO 450 AKILL=PERCOV*(EL*T(3,IA)-PLOSS(3,IA,2))*F**BERCAS AKILL=IFIX(AKILL*10.+.5)/10. 31293 331300 731313 GO TO 440 450 AKILL=PEPCOV+(ELHT(K, [A)-PLOSS(K, [A, 2))+P+ATFAC(J) 03132 i 31 33: AKILL=IFIX(AKILL-10.+.5)/10. 131340 ALOSS (5. K) = ALOSS (5.K) + IFIX (AKILL-10.+.001)-PACK(IA) 331350 PLOSS(K.14.1)=PLOSS(K.14.1)+IFTX(A*ILL+1G.+.JJ1)/13.
IF(K.EQ.1)GO TO 460 13135 331373 CLOST=AKILL+CPEWS (K-12, IA)
GO TO 470 131380 31 393 CLOST=4KILL-2 470 ALOSS(5,2)=ALOSS(5,2)+IFIX(CLOST+10.+.001)-PACK(1A) 331413

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PLOSS(2.IA.1) =PLOSS(2.IA.1) +IFIY(CLOS7+11.+.801)/10.	231420
IF (I MOUNT . EQ. 1. OR . (K. NE . 21 . ANG . K . NE . 25)) GO TO 500	131430
AKILL=IFIX(AKILL=60.+.5)/1J.	2 31 440
488 00 694 KK=3,15	031453
IF (ELMT (KK.IA)-PLOSS (KK.IA.2).LE.J.) GG TC 490	331460
ALOSS(5, KK) = ALOSS(5, KK) + IFIX(AKILL+FLT(KK)+1g.+.gg1)=PACK(IA)	3 71 473
PLOSS (KK . I A. 1) = PLOSS (KK . I A . 1) + TFIX (AK 1LL - FL T (KK) - 1] . + . 3 1 1 / 13	
490 CONFINUE	J3149:
500 CONFINUE	331500
IF(IRUN.EQ.1)GO TO 600	331513
INX= G	031520
00 590 K=1, 32	331533
AKILL=9 OSS (K · IA · 1)	031540
IF(AKILL.LT1)GG TO 598	031550
IF (K . GF. 2 . 4NO . K . LE . 15) GO TO 520	031560
IF(K.EQ.1)GO TO 510	03157:
GLOST#AKILL#CREWS (K-1 2. IA)	331580
GO TO 520	J31590
510 CLOST=akill*2.	371500
520 IF(INX.EQ.1)GO TO 550	J31610
PRINT 530	031620
530 FORMAT("1")	331630
PRINT +, "+MINEFIELO ASSESSMENTS"	331640
PRINT 540	931650
540 FORMAT (" [",27x,"I")	331660
PRINT ", "I ATTACKER LOSSES I"	331670
PRINT *, "I ITEH # LOST CREW I"	031560
PRINT 54G	031690
I NX= 1	331733
550 IF(K.GE.2.AND.K.LE.151GO TO 570	331713
PRINT 560.K.AKILL,CLOST	31720
560 FORMAT(" [",5x,12,F9.1,F7.1,4x,"I")	331730
GO TO 590	031743
576 PRINT 580,K.AKILL	031750
560 FORMAT(" 1",5%,12,F9.1,11%,"I")	331760
590 CONTINUE	331770
IF(INX,E0.0)GO TO 600	331790
PRINT 540	331790
PPINT P, "FEETSEERSEESEESEESEESEESE	371997
PRINT 530	331310
600 IF (IPUN. EQ. 1) PRINT +, * LOSSES TO MINEFIELD PRINTED HERE"	13192:
00 610 K=1,32	331 430
CO 610 J=1,2	331940
PLOSS(K, J, 2) = PLOSS(K, J, 2) +PLOSS(K, J, 1)	331453
PLOSS (K, J, 1) = 0 .	331960
610 CONTINUE	331872
GO TO 150	33189
620 INX=0	331990

	CALL LOSS (5.5.16.30, INX) IF (INX.EO. "YES") CALL CKSTOR (AH1.IPUT) 630 ENO	63190 23191 13192
اه		
	,	
}		
0		
l	M-109	

SUBPRITIVE FASCAMIPLOSS)	23234
COMMON IA, ID, IP, IENGAG, IT EPRN, IVIS, IMGUNT, MINES, CEPR, FSF22, F22,	11245
1 ATI HE I FIRST IRUN, NORD . F MASS IMA)KV.	
2 SF(2) .FSSF(2) .PACK(2) .	23.77
3 ELAT(40.2). ALOSS(66.66). SHOTS(55.2). (KILL(43.2). SHCTSV(55.2)	<u>i 31 99</u>
COM GN/REED/JOAY1, XINX(4), ICARO(20), IARMCR	33199
COMMON/DATA/FPS(AD. 2) -GREWS (53.2) -AFOS(12) -GPOS(6) - ITHERM(20, 2) -	
1 PSN (6,2,2), PLT (15), KEY (171)	33231
OIMENSION FATCAS(3) .FPGAS(3) .FLOSS(32.2.2)	ع 251 و
OIMENSION FATOEN(3), FPOEN(3), GEPTH(3)	03233
DATA (FAT CAS (I) , I=1,3) /. 56,.24,.2/	33234
DATA (FPCAS(I) .I=1.3)/.4009,.0/	03235
OATA FATDEN /.001,.01001/	<u> </u>
DATA FPOEN /.001,.003,.0/	37207
0ATA 0EPTH/1752500./	93217
100 FORMAT(" NUMBER NOT WITHIN COCTRINE BOUNCARY - TRY AGAIN")	33203
110 PRINT - "SELECT TYPE OF FASCAM CELIVERY"	13219
CALL REEC4	33210
II=(INV(1)	_13211
IF(II.EQ.999)GO TC 129	93212
IFIII.GE.1.ANO.II.LE.31GO TO 130	<u> </u>
PRINT 100	03214
120 PRINT 4. WFOR ARTILLERY	13215
PRINT TO GEMMSENTER 2"	33216
PRINT *," SLUMINESENTER 3"	<u> </u>
GO TO 110	33219
L30 PRINT +, "ENTER MINEFIELD FRONTAGE (MAX= 100000)" CALL REED4	33223
FRONT=XINX(1)	03221
IF (FRONT.GE.100AND.FRONT.LE.10000 (.)GO TO 140	33222
PRINT 100	13223
GO TO 130	13224
140 CONTINUE	93225
SHOTSV(16.1) = SHOTSV(16.1) + (FATDEN(II) + FFREN(II)) * DEPTH(II) * FRON*	23226
PRINT 4. "ENTER FRACTION OF ME NOT BYPASSED BY ATTACKES (MAX #1.)"	23227
CALL REEC4	13229
PHPMBY=XINX(1)	03229
IF (P MFNBY, EQ. 399) GO TO 153	-03230
TECPMENBY.GEO.ANO.PMENBY.LE.1.1GO TO 160	23231
PRINT 100	33232
150 PRINT +, "FOR EXAMPLE: Q. MEANS ALL OF MF CAN BE BYPASSED"	23233
PRINT ""OR 1. "EANS NONE OF ME CAN BE BYPASSEC"	27274
60 TO 140	13235
160 FROBY=FRONT*PMFNBY	13236
PRINT 170.FROBY	23237
176 FORMAT (" ENTER AMOUNT OF TRAFFI (ARLE TEFRAIN (".FR.C."-13303). H)	
1)	ü 32 39
CALL REED4	33243

TRZO NE =X INX (1)	:324
IF(TRZONE.GE.FRORY.ANC.TRZONE.LE.10GCO.)GO TO 18C	3324
PRINT 120	2324
G0 f0 160	3324
50 PRINT * "ENTER FERCENT (DECIMAL) OF FORCE ENTERING MF (MAX=.5)"	1324
CALL REED4	3324
PEXINX(1)	3324
IF(9.GT.GAND.F.LE5)GO TO 190	2324
PRINT 100	3324
GO 70 130	1325
90 PERSOV=FFOBY/TRZONE	1325
CO 250 K=1.32	1325
IF(ELMT(K,IA)-PLOSS(K,IA,2).LE.O.)GO TO 250	1325
IFK.LT.16.AND.K.NE.31GO TO 250	3325
IF(K.EQ.3.4NO.IMOUNT.EQ.2)GO TO 250	3325
IF(K.NE.3)GO TO 200	3 32 5
AKILL=FERCOV+(ELMT(3, IA) -PLOSS(3, IA, 2)) +F-FPCAS(II)	2325
AKILL=IFIX(4KILL-10.+.5)/10.	3325
GO FO 230	3325
30 AKILL=PERCOV+(ELMT(K,IA)-PLOSS(K,IA,Z)) =F=FATCAS(II)	3325
AKILL=IFIX(AKILL=10.+.5)/10.	2325
ALOSS(5,K)=ALOSS(5,K)+IFIX(AKILL+10.+.0(1)+PACK(11)	1326
PLOSS(K, IA, 1) =PLOSS(K, IA, 1) - IFI = (A KILL + 10.+.051) / 10.	3326
IF(#.EQ.1)GO TO 210	1326
CLOST=AKILL+GREHS(K-12, IA)	0326
GO TO 220	3326
10 CLOST=4KILL+2.	0325
20 ALOSS(5, 2) =4LOSS(5,2) +IFIX(GLOST +10.+.001) =PACK(IA)	3326
PLOSS(2, IA, 1) =PLOSS(2, IA, 1) + IFIY(CLOST*10.+.CJ1)/10.	0325
IF(I MOUNT.EQ.1.OR.(K.NE.21.AND.K.NE.25) JGC TO 250	1327
AKILL=IFIX(AKILL+60.+.5)/10.	0327
30 00 241 KK=3,15	0327
IF(ELMT(KK,IA)-PLOSS(KK,IA,2).E0.0.1G0 TO 240	0327
ALOSS (5, KK) = ALOSS (5, KK) + TFT X (AKILL + FLT (KK) + 10. +. 0 (1) + PACK (IA)	1327
PLOSS(KK,IA,1)=PLOSS(KK,IA,1)+IFIX(4KILL+FLT(KK)+16.+.071)/1].	C327
40 CONTINUE	3327
50 CONTINUE	3327
IF(IRUN.EQ.1) GO TO 350	3327
[NX= 0	1327
00 340 K=1,32	3329
AKILL=PLOSS(K,IA,1)	7:29
IF(AKILL.LT1)GO TO 340	132ª
IF (K.GE. 2. AND. K.LE. 15)GO TO 270	_ 3325 _ 3328
IF (K.EQ. 1) GO TO 250	
CLOST= AKILL *CREWS (K-12, IA)	
GO TO 270	1329
60 CLOST=AKILL+2.	2325
70 IF(INX.EQ.1)GO TO 300	1323

232590 232900 280 FORMAT ("1") PRINT . . ---- FASCAM ASSESSMENTS ----732910 PRINT 290 432920 290 FORMAT (" I".24X."I") 132930 PRINT +, "I PRINT +, "I PRINT 298 ATTACKER LOSSES 032940 132950 032963 ITEM PLOST COEM INX=1 132970 300 IFIK.GE. 2. ANO. K.LE. 15160 TO 320 332980 PPINT 310 K. AKILL CLOST 132990 310 FORMAT(" I",3X,12,F9.1,F7.1,3X,"I") 373000 GG TG 340 320 PPINT 330,K,AKILL 333010 133320 330 FORMAT (" 1".3x.12.F9.1.10x."1") 033033 033046 340 CONTINUE 333050 IF(INX.EQ.01GO TO 350 133060 033070 033090 350 IFIRUN.EO.1) PRINT *." LOSSES TO MINEFIELD PRINTED HERE"
00 360 K=1,32
00 360 J=1,2 133393 333100 133110 PLOSS (K, J, 2) = PLOSS (K, J, 2) +PLOSS (K, J,1) 033120 033130 333140 PLOSS (Y, J, 1) = 0. 360 CONFINUE RETURN 133150 END 033160 M-112

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SUBROUTINE CANNON COMMON IA, ID, IP, LENGAG, ITERAN, IVIS . INCUNT, MINES, CFOR, FSFOR, FD-, 133190 1 ATTME, IFIRST, IPUN, MOTO, FPASS, IMA JKY. 2 SF(2), FSSF(2), PACK(2), 13291 13321 ELMT(80,2), ALOSS(66,66), SMOTS(55,2), CKILL(53,2), SMOTSV(55,2) 033220 COMMON/REED/JOAY1, XINX(4), ICAFO(20), IAFMCR 033230 COMMON/DATA/FPS(40.2).CREWS(53.2).APOS(12).OPOS(6).ITHE=H(20.2). 1 PSN(6.2.2).PLT(15).KEY(171) 13324: 133251 CUMMON/ONE /LFIT(35) , ARRAY (90) , MYBUF (1024) ,0 (80,2) , ACI, 1ASCENE, ASECT COMMON/THREE/IMIST(35), AM(90) , IYBUF (1024) 333260 33280 COMMON/EW/PCDGP (2,4), IC CUNT (8), ISHOKE (2), FCSHO(2), PCSSH(2), ARC(2) 233293 DIMENSION TBAT(13,2), SUPP (4), ISHOT(13,2), FOF (5,2), PREP(2), MAP(55), 03331 1 PLOSS(55, 2,2), HF (2), PERSF(2), RCF(13,3,2), RPM(13,2), FKILL(13), 2 CBILEV(6), TGT(17,2), GPERA(17,2), FOK(55,2), FCT(15,17,2), H(17), 233335 TCB(2), ICS(2), CLEV(3,2), AOSF(2)

DIMENSION TARTP(2)

OTHENSION PCM(2), PICM(13,2), ICM(13,2), PCM1(2), OA(13,2)

REAL MM, MMTM

REAL MMF OFB(17) 33350 33373 033350 DIRENSION TEMP (6, 13) , TEMP 3 (3, 17) 3339: DIMENSION TEMP2(6,13) . TEMP4 (3,17) 333433 33341: DATA HAPPING INDEX. DATA (MAP(I), I=1,55)/ 033430 6.3.1.4*G.2.2.1.1.3.4.4.4.3.10*5. 9,8,8,8.10.10.10.8.8.7.7.7.10.11.10.5.5.11.11.12. 33443 3345: 23346 93347; INDIRECT FIRE WEAPON SUPPRESSION COFFICIENTS.
DATA (SUPR (I) . I=1.4) /3.52, 3*2.86/ 13349: 233530 333513 CALL OPENMS (3,KEY,171.0) POK TABLE CALL REACHS (3, POK, 110, 36) 3352: CEGRADE POK TABLE (IST 55 -- RED POK OF BLUE) 133540 13355. 00 9999 I=1.110 POK(I)=POK(I)=.2 9 13560 13357 9999 CONTINUE ICF FRACT IONAL DAMAGE TABLE. CALL READMS(3,FDT,510,37) 233643 93361: 13362: FRACTION OF ARTY PER SUPPORT LEVEL.

CATA (CBTLEV(I), I=1,6) /.35,.67,1.,1.96,2.96,4./ J 3363: : 3364 DATA (CSTLEV(I), I=1,6)/.15,.34,.51,1.J,1.51,2.04/

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	44	6.,	19.,	.75,	5.,	.1,	3.,	3341
	43	T84T	ISHOT 17.,	0A .76.	R FM	-3,	0	3363 3361
• •	REO		TOUAT		0.64	PICM	ICH	3340
								0340
	CATA	TE4P2/						0340
Ī								3340
	55	3.,	33.,	.75.	36.,	.,,	2./	2343
_	54	12.,	32.,	.75.	1.,	.3,	٥.,	3340
	53	6.,	26.,	.61,	E.,	.67,	14.,	0340
	52	8.,	(.,	.00.	6.,			3343
	51	4	29.	.61,	ó.,	.75	15	3343
	50	***	26.	.75.	5.,	.63.	14	1339
	49	6., 0.,	23.,	.00.	6	.0.	2	1339
_	<u>67</u>	3 •.,	19.,	.76.	6	<u>:3</u> :		339 339
	46	4.,	21.,	.94,	6.,	• 3 •	3.,	3339
_	45		21		6.,		<u>Q</u>	1339
	44	3.,	19.,	.94,	5.,	.,,	0.,	2339
_	43	3.	17	.94,	<u> </u>		(.,	3339
		TBAT	ISHOT	QA	KPM	PICH	ICY	3333
	NO.			FTRER V	ARIABLES			0339
	EAP							0338
	BLUE	FIPERS						0338
_								0339
	DATE	TEMP/						6334
_		ANALA TITES	36¥IT f					3338
		ROUND_TYPE						0338
-		ENT ICH (P		EE (REF)				1337
			AILAGILIT Sion <u>per tu</u>					1339
_			AILAGILITY	(04)				0338
		S PER BATT! D INCEX (II						0337 3338
	¥.,,,,,,				· · · · · · · · · · · · · · · · · · ·			
F	IRER 3	TA. FIRER	DATA FIRE	F DATAFI	RER DATA	FIRER CATA	FIRET D	
4	****	******	*******	******	*******	45444444	******	**C337
								9337
U	NCL ASS	FIED DATA	BASE UNCL	ASSIFIEC O	ATA SASE	UNCLASSIFI	EC DATA 3	
_								0337
								2337
_								0337
								0337 0337
								<u> </u>
	CALL	Crcsh2(3)						0 336
_		PEACHS (3.	POF . 78 . 381					
		DE RATES						3736

			74	æ	1	2.,	2 34
46	6.,	21	.61.	<u> </u>	<u> </u>	0.,	034
47			.00	E.			3.34
48	6.,	24.,	.75.	6.,	.3,	٥.,	0 34
49	6	29.	.76.	6.,	. 2,	14	034
50	6.,	24.,	.61.	6.,		3.,	2 34
51	6	28.,	.61.	6.,	<u> </u>	<u> </u>	3 34
52 53	5.,	26.,	.76. .76.	6.,	.0, .25,	15.,	3 34
54	6.,	<u> </u>	.61,	40.,	.0.	3.,	0 34
55	6.,	34.,	.61.	5.,	.5,	15./	_ 334
TRER JA	TAFIRER	DATAFIGE	P DATAFI	RER DATA	FIRER CATA	FIRER D	331 231 47231
PARGET C	ATATARGE	T DATA TA	FG ET DATA.	AC TERRAT.	TATAPGET	Jat A TA	RG334
ELEAF	NTS PEP TA	RGET (TGT)			:-		330
TARGE	T OP AV 10	PERAI					234
MILIT	ARY HOPTH	(MWROF3, MW)				330
							234
GATA	TEMP3/						134
01.15	TARGETS						234
ARGET	IARGEIS						334
CAT.		745	GET VAFIAB	LES			
· ·	7G?		OPERA		4440F9		336
1	49.,		1.5.		31.6.		334
2	10.		.81.		192.3.		234
3	10		•79•		127.2.		334
5	10		.75,		159.0,		339
6	10., 3.,		• 93•		11.0.		330
 	1		•83•		153.2.	-	<u> </u>
8	2.,		.75,		169.6.		334
9	2.,		.61.		153.6.		334
10	4.,		.94,		149.40		33
11	6.,		.76.		201.6.		339
12	4.,		1.9,		212.2.		$-\frac{13}{3}$
13 14	2.,		.51.		105.0.		33
15	10.,		.79.		84.1.	 -	334
16	10.,		.79.		84.8.		3 3 9
17	10		.95,	· · · · · · · · · · · · · · · · · · ·	149.4/		3 34
							3.34
DATA	TEMPL/						039
							330
RED	TA.RG E 13						3 4

Total Contraction

	TGT	20024	2414	
1	31	OPERA 1.0.		<u>9346</u> 3346
2	10		192.3.	1346
3	10.,	.79.	145.4.	0346
. _	10.		148.4.	3346
5	10	.95.	125.0.	7346
6	3	.63.	11.0.	3 366
7	1.,	.83.	183.2.	3360
	4.0	.75.	195.0.	234
9	4.,	.60.	195.0.	2346
 _		.94.	148.3.	234
11	6.,	.76.	201.6,	3347 3347
13		1.3.	42.4.	1347
16	2		136.0.	1347
15	10.,	.78.	73.6.	134
16	10		71.8.	3347
17	10.,	.95.	70.4/	3347
				1347
*****	*****	TATAEGET DATATARG	************	TAPEGRALANT AND
UNCL ASS	IFIEC DATA BASE	************	************	TARGUS43 1366 1366 1366 1366
UNCL ASS	IFIEC DATA BASE	.UNCLASSIFIED DATA	************	TARGUS43 1346 1346 1346 1346
UNCL ASS	IFIEC DATA BASE. 8 I=1,13 (I,1)=TEMP(1.1)	.UNCLASSIFIED DATA 9	************	147 05 AT 143 143 143 143 143 143 143 143 143 143
UNCLASS UNCLASS TO 1 TO 1	### IFIEC DATA BASE. 8 T=1.13 (I,1)=TEMP(1.1) T(1,1)=TEMP(2,1)	.UNCLASSIFIED DATA 9	************	TA 767 343 TA 367 346 2346 2346 2346 2346 2346 2346
DO 1 T 3A7 I SHO OA (1	B T=1,13 ([,1)=TEMP(1,3) T([,1)=TEMP(2,1) ,1)=TEMP(3,1)	.UNCLASSIFIED DATA 9	************	TA 3A53346 TA 3A53346 3346 3346 3346 3346
DO 1 T3A7 ISHO GA (I	### IFIEC DATA BASE. 8 T=1.13 (I,1)=TEMP(1.1) T(1,1)=TEMP(2,1)	.UNCLASSIFIED DATA 9	************	TARGOSA: TAR
UNCLASS UNCLASS TEAT ISHO OA (I	######################################	.UNCLASSIFIED DATA 9	************	TAPGD344 TAPGD344 TAPGD344 0344 0344 0344 0344 0344 0344 0344
UNCLASS UNCLASS TEAT ISHO GA (I RPH) PIC: 18 ICH	### TEMP (1.1) ### TEMP (1.1) ### TEMP (2.1) ### TEMP (3.1) ### TEMP (4.1) ### TEMP (5.1) ### TEMP (5.1) #### TEMP (6.1) #### TEMP (6.1) #### TEMP (6.1)	.UNCLASSIFIED DATA 9	************	TARGUSA: TARGUSA: TARGUSA: 1344 1344 1344 1344 1344
UNCLASS OO 1 T3A7 ISHO OA (1 RPH) PIC: 18 ICH	######################################	.UNCLASSIFIED DATA 9	************	7.7.2.034.5 7.3.4.6 7.4.6 7.4
UNCL ASS UNCL ASS UNCL ASS UNCL ASS UNCL ASS ISHO OA (I RPH) PIC: 18 ICHE ICHE TBAT ISHO	8 I=1,13 (I,1)=TEMP(1,1) T(I,1)=TEMP(2,I) I,1)=TEMP(4,I) I(I,1)=TEMP(5,I) I(I,1)=TEMP(6,I) I(I,1)=TEMP(6,I) I(I,1)=TEMP(1,I) I(I,1)=TEMP(1,I) I(I,1)=TEMP(1,I)	.UNCLASSIFIED DATA 9	************	TARGUSAS TARGUSAS 1346 1346 1346 1346 1346 1346 1346 1346 1346 1346
DO 1 TEAT ISHO OA (I RPNC PIC: 18 ICHI	a I=1.13 (I,1)=TEMP(1.1) T(I,1)=TEMP(2.1) ,1)=TEMP(3.1) !I,1)=TEMP(4.1) !I,1)=TEMP(5.1) I,1)=TEMP(6.1) 0 I=1.13 (I,2)=TEMP2(1,1) !I(1,2)=TEMP2(2,1) ,2)=TEMP2(3.1)	.UNCLASSIFIED DATA 9	************	TARGOS43 TARGOS43 TARGOS43 3346
00 t T3A7 IS0 QA (I RPM P1C) 18 ICM TBAT ISM OA (I	a I=1,13 (I,1)=TEMP(1,1) T(I,1)=TEMP(2,1) T(I,1)=TEMP(3,1) T(I,1)=TEMP(4,1) (I,1)=TEMP(5,1) I,1)=TEMP(5,1) I,1)=TEMP(5,1) I,1)=TEMP(5,1) I,1)=TEMP(5,1) I,1)=TEMP(3,1) I,2)=TEMP2(3,1) I,2)=TEMP2(4,1)	.UNCLASSIFIED DATA 9	************	TARGOSA: TARGOS
00 1 T3A7 ISA1 6A1 6A1 6A1 18 ISA1 0A1 19A1	######################################	.UNCLASSIFIED DATA 9	************	TARGUSAS 1348 1348 1348 1348 1348 1348 1348 1348 1348 1348 1348 1348 1348
UNCL ASS 00 1 T 3A7 T SHO 0A 13 RPM P IC: 18 I CM 18 I CM 18 I SM 0A 11 P IC: 20 I CM 20 I CM	a I=1,13 (I,1)=TEMP(1,1) T(I,1)=TEMP(2,1) T(I,1)=TEMP(3,1) T(I,1)=TEMP(4,1) (I,1)=TEMP(5,1) I,1)=TEMP(5,1) I,1)=TEMP(5,1) I,1)=TEMP(5,1) I,1)=TEMP(5,1) I,1)=TEMP(3,1) I,2)=TEMP2(3,1) I,2)=TEMP2(4,1)	.UNCLASSIFIED DATA 9	************	TARGOS43 TARGOS
UNCL ASS 00 1 T3AF ISMO 0A 12 70 2 TBAT 0A 11 PICT 20 ICM	######################################	.UNCLASSIFIED DATA 9	************	TARGUSAS TARGUSAS 1344 1344 1344 1344 1344 1344 1344 1344 1344 1344 1344 1344 1344 1344 1344
00 1 T3A7 ISA0 0A1 6PH0 18 ICH 19 ICH 19 ICH 0A1 9 ICH 00 1 9 ICH 00 1	######################################	.UNCLASSIFIED DATA 9	************	TARGUSHA 1348 1348 1348 1348 1348 1348 1349 13
UNCL ASS 00 1 T 3A7 T SHO 0 A 12 R PHO 18 I CHO 10 A 12 18 I CHO 10 A 12 18 I CHO 10 A 12 10 A 12	######################################	.UNCLASSIFIED DATA 9	************	TARGO343 TARGO343 344 344 354 354 354 354 354
UNCL ASS 00 1 T3A7 ISHO 0A 11 PIC: 18 ICH 18 ICH 18 ICH 20 IC	######################################	.UNCLASSIFIED DATA 9	************	73 449 23
UNCL ASS 00 1 T3AF 15 10 0A 12 70 2 18 10 10 19 10 10 19 10 10 20 10 10 10 10 10 10 10 10 10 1	######################################	UNCLASSIFIED DATA 9	************	TARGUS 43 TARGUS 43 1344 1344 1344 1344 1344 1344 1344 1344 1344 1344 1344 1344 1344 1344 1344 1344 1344 1345 1346 1346 1347 1346 1347 1346 1347 1346 1347 1346 1347 1347 1348 1348 1348 1348 1348 1348 1348 1348 1348
UNCL ASS 00 1 T 3A7 I SA7 0A 11 P 10: 18 I CM 10 18 18 I CM 0A 11 19 I CM 10 I CM	######################################	UNCLASSIFIED DATA 9	************	TARGUSAS TARGUSAS 1344 1344 1344 1344 1344 1344 1344 1344 1345
UNCL ASS 00 1 T 3A7 I SHO 0A 13 RPH0 18 I CM 10 2 T BA1 15 I CM 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00 1	######################################	UNCLASSIFIED DATA 9	************	TARGUSAS 1346 1346 1346 1346 1346 1346 1346 134

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0350AC 13509C PRINT(52,+) "+++++ARTILLERY" CO 100 J=1.2 PCM(J) =1. 13519: 13511: PCML (J)=1. IARTP(J)=0 235130 135140 035150 100 CONFINUE 118 PRINT "," DO YOU WISH TO PROCESS INDIRECT FIPE ASSESSMENTS? "
CALL REEDATINX)
IF(INX.EQ."Y")GO TO 150
IF(INX.EQ."Y")GO TO 1070 035160 335170 335160 335190 33520: 335210 PRINT 140
140 FORMAT (" INCORRECT ENTRY - TRY AGAIN") 035220 135230 135240 60 FO 119 150 POINT +, " 33525: INCIRECT FIRE ASSESSMENTS" 035261 --- INITIALIZATION ---335290 135291 135301 035311 135321 235331 FLAG =0. CM50 =0. CM53=4. 00 160 J=1.2 139334 139350 139361 139361 139380 139380 ARD(J) =0 . 160 PERSF(J) =0. 00 170 K=1,55 00 170 J=1.2 00 170 L=1.2 13541: 13541: 13542: 170 PLOSS (K, J, L) = 0. IPUT =-1 AH1="CI CANNON" 335430 CALL CYSTOR (AH1. IPUT) 3544 - INTERACTIVE INPUTS -13546: 13547: 1K01 Y (4) =10 4R04 Y (5) =74 3549 00 171 1=6,90 ARRAY(1) =3 ARRAY(10)=1 23550: 172 PRINT *," ENTER PERCENT (CECIMAL) 122 SP HOWITZEPS USED IN OF FOLE35520 11553: 11554: CALL REEC 4 P=XINX(1)

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16.0

	IF P GE. C. ANO. F.LE. L.) GO TO 174	13555
	PRINT 160	33557
	GO TO 172	23550
74	Z=PEL 4T (50, 2)	375590
	ELHT (50.2) =ELHT (50.2) -Z	33560
	ELM7 (25, 2)=Z	33561
		035620
	OTGRAD MISSIONS FOR EN	G 35630
		0:564.
	PCM(J) =PCM (J) = (1PCOGR (J.31)	33565
80	CONTINUE	33566
		33567
		0356
. 90		335693
		335791
	W. S.	23571
		33572
	PRINT 210, KIND	13573
10	FOTAT (" IS ", 44," EMPLOY ING SHOKE?")	53574
	CALL REEGA(INX)	23575
_	IFITHX.EQ. TYTIGO TO 229	3575
	IF(INX.EQ."N")GO TO 258	33577
	GO TO 20C	335791
ZŪ	PRINT 230 KIND	03579.
3.0	FORMATI" ENTER PERCENT MISSIONS DEGRAC OF ".A4." SHOKE ENFLOYERS"	13771
	CALL REED4	03541
	D=X(HX(L)	13592
	IF(P.GE. 0.4NO.P.LT. 1.)GO TO 240	33584
_	PRINT 163	23585
	GO TO 22C	
40	PCML(J)=PCM1(J)=(1P) 4RRAY(10+J)=P	175a7
	ARREST LUTURES	17844
70	CONLINGE	TRACE
		135901
_	90 330 J=1.2	33591
		13592
	NHD=13 IF(J.EQ.2)NHD=16	33593
	2 TMD _ HOL 1154	13594
	IF(J.EQ. 2) KINO="RED"	13595
5.0	PRINT 270,KINO	23596
71	FORMATI" ENTER 3 ",AL," ARTY FIRING LEVELS (CST SPT.AC SUP,CTP-ST	13597
	4y) -#)	23594
	CALL REEDS	13599
	ICS(J)=XINX(1)	
	AOSF (J) = XINK(2)	33601
		135 12

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ARRAY (NHC+1) = ADSF (J) ARRAY (NHO+Z) = ICB(J) 136150 IF(ICS(J).LT.0.OR.ICS(J).GT.6)GO TO 290
IF(AOSF(J).LT.0.OR.AOSF(J).GT.6)GO TO 290
IF(ICB(J).GE.00.AO.ICR(J).LE.6)GO TO 300 336160 336370 350 <u>90</u> 290 PRINT 140
PRINT + TENTER 0
PRINT + TENTER 1 136390 8 FOR NO FIRES"
1 FOR LIGHT INTERMITTENT FIRES" 136135 636115 2 FOR FIRES BASEC ON 2/3 BASIC LOAC"

3 FOR FIRES BASEC ON TOTAL BASIC LGAC"

4 FCR FIRES BASEC ON 2/3 DAILY RESUPPLY FATE"

5 FOR FIRES BASEL ON TOTAL DAILY RESUPPLY FATE"

6 FOR APPRIX. SUSTAINED RATE OF FIFE" PRINT *, " PRINT *, " PRINT *, " 236120 136130 135140 PRINT +, = 136150 1 16160 136170 GO TO 260 35190 35190 35200 SET ARTY COMBAT LEVEL. 330 IF(ICS(J).EQ.3)GC TO 313 INX= ICS(J) 3621: CLEV (1, J) = CATLEV(INX) ICS(J) =1 3 35 223 : 36 230 336240 310 IF (AOSF(J) .EQ .0)GO TO 329 INX= ACSF (J) 336250 135250 CLEV (2. 1) =CBTLEV(INX) 136270 40SF (J)=1 IF(ICB(J).EQ.0)GO TO 330 36280 136293 INX= ICB(J) CLEY (3. 11=CSTLEY (INK) 335300 336312 ICB(J)=1 11632 330 CONTINUE 136 335 936340 340 PRINT *. "ENTER # HOLRS OF A FTY SUPPORT (0-", ATINE,")" 33635: CALL REED4 36360 HRARTY=XINX(1) 0 35 37 3 ARRAY(19)=HRARTY
IF(HRARTY.GE.D.AND.HRARTY.LE.ATIME)GO TO 357 36 38 C 336 39: PPINT 140 236400 3641: 136429 93643: 350 PRINT . "ENTER . MINUTES OF FREF FIRE (0-60)" CALL REEDA :36440 23645: PREP (IA) =XINX (1) ARRAY(20)=PREP(IA) IF(PREP(IA).EQ.0.1GO TO 370 436463 3647; IF (PREP(IA).GT.8..AND.PREP(IA).LE.63.1GQ TO 350 036480 PPINT 140 GO ! 0 350 33549: 035500

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360	PRINT +. MENTER # MINUTES OF COUNTER-PREP FIRES (0-50)*	13652
	CALL REE 04	33653
	POED (ID) = XINX (1)	23654
	ARRAY(21)=PREP(IO)	0.3655
	IF(PREP(ID).GE.GAND.PREP(ID).LE.61.1GC TO 370	13656
•	POINT 148	03657
	GO FO 360	03558
		J 36 59
_370	PRINT 4. "ENTER & MINUTES OF FINAL PROTECTIVE FIRE (C-60)"	23660
	CALL REEC4	13561
	FPFe XINX (1)	13662
	ARRAY(22)=FPF	: 3663
	IF(FPF.GF.GANG.FPF.LE.6C.)GO TO 380	23664
	PRINT 140	03665
	GO TO 370	13665
		: 3667
	CALC. ACTUAL # HOURS OF ICF SUPFORT	5 3 6 6 9
	ATTACKING FORCE	13669
_380	HOUR S=HRARTY	23673
	HR (I A) =HGURS- (PPEP (IA)/50.)	33671
	DEFENDING FORCE	03672
	HR (I D) =H CUPS- (PREP (IC) / 60.) - (FPF/50.)	23673
		73674
		23575
	SPECIAL MISSION LOGIC FLAGS	13676
		23677
	PERSF(TA)=1.	0 36 78
	IF(1 MOUNT.EQ. 2)GO TO 390	23679
	DE95 F (ID) = 1.	27653
	GO TO 400	03681
		13662
390	PRINT +, "WILL ATTACKER CISHOUNT INFANTRY CURING THIS CI?"	33683
	CALL PEECA (INX)	13694
	IF(INY.EQ. "Y") PERSF(ID) =1./HR(ID)	17665 13566
	IF(INX.EQ."Y")ARRAY(23)=1	33637
	IF(INX.ED. "Y".OQ.INX.EQ. "N")GO TO 400	13644
	9PINT 160 GO TO 390	13689
	** :	13690
	CONTINUE	13691
	00 95 J=1,2	03692
	IF(ELHT(50,J).EQ. 0AND.ELMT(51,J).EQ.0.)GO TO 95	23693
	00 94 [=1,15 50757 44 11=50777 42 4	13694
94	FCT(I,11,J)=FOT(I,12,J) CONTINUE	G3695
-	CONTINUE	23696
9	LUM LAUE	23697
	*** FIGE DISTRIBUTION FACTOR (FCF) ***	13596
	TTT PARE DISTRIBUTION PROTUR TELET	13599
		13979

137036 137313 410 00 420 INX=1.5 00 420 J=1.2 037020 337030 420 FOFLINK. 1) =0. 337340 IFLAG=FLAG+1 CYCLE ROUTINE FOR SCTH FORCES. 337350 037660 S. 1=1 05 7 00 037570 L=1 IF(L.EQ.J) L=2 337383 337090 137100 IF (FLAG. EQ.Z. AND. J. EQ. IA) GO TO 123 337113 037123 BPANCH FOR FP FIRES IF (FLAG. EG. 2) GO TO 490 037140 337150 IFIFLAG.EQ.D..AND.PPEP(J).EQ.Q.IGC TO 520 FOR CENOMINATOR FOR STANDARG IDE PISSIONS. 0 37 1 63 337170 037150 037193 ITERATE FOR ALL POSSIBLE IDF TARGETS. 00 480 K=1,55 IF (NAP (K).EQ. 3) GO TO 480

IF (L.EQ. 1.AND.K.GE.54) GO TO 480

IF (ELHT (K,L)-PLOSS (K.L.Z).LE.C.) GO TO 440

TEST FOR DISMOUNTED INFANTRY DURING PREP/C-PREP FIRES. 337290 0 37213 3 37220 0 37233 IF (R.EQ. 3. AND .FLAG.EQ.Q. . AND. PERSE (J) .NE. 1. 160 TO 486 37240 37250 137263 SET ACO FACTOR. 337279 337280 KK=? INX=2 337293 337300 IF (L .EQ. IA) INX=1 ACQ=POK(K.L) IF((K.GE.J.AND.K.LE.JZ).OF.(K.GE.43.AND.K.LE.47))ACQ=FOK(K.L)* 3 37 310 037320 037330 PSN (IENGAG, INX, KK) +. !* (1.-PSN (IENGAG, INX, KK)) CALCULATE PRESENTED TARGET AREAS. 37343 337350 FAC= 1. IF(K.EQ.3) FAC =PERSF(J)
IF(K.GE.31.ANO.K.LE.42) FAC=ACSF(J) 137362 137373 037390 IF(K.LT.31.AND.ICS(J).EG.()GO TO 480 IF (K.GE. 43. ANO.K. LE. 55. ANC. ICE(J) . ED. 0) GO TO 440 337390 23740: 33741: KK=HAP(K) IF(KK.LE.S.ANC.L.EQ.IC)KK=KK+12 AT=ACQ=(ELHT(K.L)-PLOSS(K.L.2)1-OPEFA(KK.L)/FG*(KK.L) 037420 MUTHERU(KK) 237433 IF (3.EQ. 2) MWTH= MWROFB (KK)
IF (FLAG.EQ. 3) MWTH=1 337440 237450 13746 33747:

0

FILTER OUT INAPPOPRIATE SPECIAL MISSIONS 137440 IFIFAC.LE. 01GO TO 480 137493 137501 BPANCH AS PEP TARGETING SCHERE 337510 137520 IF(K.EQ.1.09.K.EQ.4A.OR.K.EQ.551GQ TO 450 IF(K.EQ.3.0R.K.EQ.12.OR.K.EQ.13)GQ TO 430 IF(K.LT.16.0R.K.EQ.42)GG TO 480 037530 0 37550 IF(K.EQ.37:0R.(J.EQ.1.ANC.(K.EQ.35.CR.K.EQ.36))) GO TC 433 IF(K.GE.Z1.ANO.K.LE.36)GO TO 440 23756C 437570 IF (K.GE. 40. AND. K.LE. 41) GO TO 470 137540 IF (K.GE. 43.AND.K.LE.47) GO TO 438 137590 137600 GO TO 460 037610 LT. MORTARS 337520 438 F3F(1.J)=F3F(1.J)+F4C 37630 337543 HVY. MORTARS 237550 440 FOF(2. J) =FDF (2. J) +FAC 37660 137671 LT. ARTY 450 FOF(3, J) =FCF(3, J) +FAC \$37690 037700 HED. ARTY 037710 460 FOF(4, J) =FOF(4, J) +FAC 337733 037743 HVY. ARTY 470 IF K .GE.45 . AND . K . LE. 5 5 FAC = FAC - 2 . 337753 FDF(5, J) = FDF (5, J) +FAC 137760 450 CONTINUE 13777: 137783 GO TO 520 137799 337900 FOF DENGMINATOP CALC. FOF FF FIRES. 337913 337922 TEST FOR SPECIAL IDF MISSIONS 137430 490 IF (FLAG. EQ. 2. AND . (J. EQ. TA. CR. FFF. EQ. 0.)) GO TO 520 337943 3745 3 7746 ONLY FORWARD HEAPON SYSTEMS ARE SPECIAL MISSION TARGETS. 00 5 18 K=1.32 IF(L.E0.1.4NO.K.GE.541GO TO 510 13747: 337880 IF(ELHT(K,L)-PLOSS(K,L,2)-LE.0.)GO TO 510 3 37 990 37900 SET ACQ FACTOR. 337922 KK=2 IF (FLAG. EQ. 0.) KK=1 037930 I:4X= 2 IF (L.EQ. IA) INX=1

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ACO= FOK (K.L.) 337963 IF ((K.GF. 3.AND.K.LE. 32) . OR. (K.GE. 43.ANG.K.LE. 47)) ACG = FOX (K.L) -:37975 1 PSN (IENGAG. INX.KK) +.5 · (1. -PSN (IENGAG. INX.KK)) 137940 CALCULATE PRESENTED TARGET AREAS. 337990 338665 338013 138120 IF (K.EQ. 3) FAC=PERSF (J) 239236 KK=HAP(K) 038340 TF(KK.LE.5.AND.L.EQ.ID) KK=KK+12 AT=ACQ=(ELHT(K,L)-PLOSS(K,L,2))=OPERA(KK,L)/TST(KK,L) 139950 33896C FAC= AT-FAC 338070 FILIER OUT INAPPP CPGIATE SPECIAL HISSIGNS.
IF (FAC. LE. 2.) GO TO 510 28085 339390 038100 FILTER OUT INAPPROPRIATE SPICIAL MISSION TARGETS. IF (K.LT.15.OR.K.GT.27)GO TO 513 239112 136120 00 500 INX=1,5 338130 FOFTINX, J) = FOF (INX, J) +FAC 0 351 40 500 CONFINUE 333150 SLO CONTINUE 038160 038170 039190 *** IDF ASSESSMENTS *** 138190 234200 338210 38225 ITERATE FOR ALL ICF TAPGETS. 520 I50= C 038230 138240 I53=0 3325: 00 710 K=1.55 339260 IF (MAP (K) .EQ. 3)60 TO 713 SKILL=0. 13927: 138290 IF(L.EG.1.ANG.K.GE.541GG TO 713 IF(ELMT(K,L)-PLOSS(K.L.2).LE.C.)GG TO 713 13829: 136310 13931: SET ACO PARMS. 13933: 338341 338351 IF (FLAG. EQ. 0.) KK=1 DETERMINE ACD FACTOR. 335360 INX= 2 33837: IF(L.EQ.IA) INX=1 AGG=POK(K.L) 3838: 275390 IF ((K.GE. 3.AND.K.LE. 32) . OR. (K.GE. 43.ANC. K.LE. 47)) ACQ=POK (K.L) . 139400 1 PSM (TENGAG, INX, KK) +. 5 - (1 - PSM (TENGAG, INX, KK))

CALCULATE PRESENTED TARGET ARFAS. 039410 33942 FAC=1. M-123

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10 th 10 th

IF(K.LT.31)FAC=ICS(J)
IF(K.EQ.3.AND.FAG.ED.1)FAC=FERSF(J) 338440 3845: IFIR GE. 31 AND K.LE. 42) FAC = ADSF(J) 134460 IF K .GE. 43.AND.K.LE.55) FAC=ICB(J) 135470 KKEMAP (K) 35450 IF (EK.LE.5.AND.L.EP.IC) KK=KK+12 138490 AT=ACQ=(ELMT(K.L) -PLOSS(K.L.2)) -CPERA(KK.L)/TGT(KK.L)
SET MILITAPY MORTH CF TARGETS 139503 139510 25525 HHTH=MH (KK) IF(J.EQ.2) MHTH= MHROF8 (KY) 139530 IF (FLAG. NE. 1) MMTH=1

ITERATE FOR ALL ICF MEAPON SYSTEMS. 039556 00 570 1=43.55 33560 INC= 11+(I-43) -4 038570 PKILL(1-421=1. 3<u>45</u>80 134590 IF(ELM*(I, J)-PLOSS(I, J. 2) .LE.0.) GO TO 670 038610 DETERMINE CATEGORY OF TOF HEAPON 338610 638623 ICAT =4 IF (I .EQ. 43) I CAT=1 238632 038640 334663 038672 IF(FDF(ICAT.J).EQ.0.) GO TO 670 MHTH XSHHTH 138680 IFIT.GE. 49. AND.K.LE.55. ANC. ICAT.EQ.5) HWTHX=HHTH-2. 38690 234720 SET # HOURS OF IDE SUPPORT. 38722 HCURS=HR(J) IF (FLAG. EQ. G.) HOURS=PREP (J) /63. 339730 IF (FLAG. EQ. 2.) HCURS#FPF/60.

IF (FLAG. EQ. 2.) HCURS#FPF/60.

IF (FLAG. EQ. 2.. AND. J. EQ. IA) HOURS#0.

IF (HOURS.LT.0) HOURS#0.

SET FRACTION OF MISSIONS FIRED AT TARGETED OBJECTIVES. 339743 138760 038770 338780 IF(ICAT.LT.31F=.97 316790 IF(J.EQ.2.ANO.ICAT.GT.2)F=.93 IF(J.EQ.2.ANO.(I.EQ.44.GR.I.EQ.50))F=1.(339832 33881: 338420 138830 338840 IF(J.EQ.1.AYO.(1.GE.44.ANC.I.LE.471)F=1.0 CALC. SUPPRESSION FACTOR IOP= 1 139957 IF(J.Eq.1.AND.I.GE.46) IOP=2 S=1.-FSSF(J)*SUPR(ICP) 038960 TF(5 .L 5 . . 2) S = . 2 IF(FLAG. EQ . 2) S = 1 . 239990 338890 SET THE FFACTION OF HORTAFS ACTIVE.

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DE=PSN(IENGAG,J,2)
IF(FLAG.L7.3.)DE=PSN(IENG &G,J,1) 23893: 138940 ALL ARTY IS ACTIVE. 333950 TF (T CAT. GT. 2) TE=1 538962 IF(K.LE.30) C=CLEV(1,J) 138970 IF(K.GE.31.AND.K.LE.43) C=GLEV(2,J)
IF(K.GE.43.AND.K.LE.55) C=CLEV(3,J) 238982 138990 IF (ICAT.GT. 2. AND.FLAG.ED. 1.)CE=C ú 390 JS 339315 SET MAPPING INDEX 0 390 20 039030 II=4AP(I) BRANCH FOR FP FIRES . 390 40 IF(FLAG. EQ. 2) GQ TQ 540 339160 FILTER OUT INAPPROPRIATE TARGETS FOR STANGARD TOF MISSIONS. 139070 IF(K.E9.1.09.K.EQ.48.08.K.E9.55)GO TO 550 339590 IF (K.EQ. 3. OR. K. EQ. 12. OR. K. EQ. 13) GO TO 530 IF(K.LT.16.3R.K.E9.42)G0 TO 713
IF(K.EQ.37.OR.(J.EQ.1.AND.(K.EQ.35.OR.K.EQ.36))) G0 TO 533 239100 C3911C IF(K.GE.21.AND.K.LE.36)GO TO 540 IF(K.GE.40.AND.K.LE.41)GO TO 570 339120 339130 IF(K.GE. 43.ANC.K.LE. 47) GO TO 530 339140 GO TO 550 039150 0 39 1 6 0 530 IF (ICAT. EQ. 1) GO TO 590 239170 039180 540 IF (ICAT.EQ.2) GO TO 590 139190 0 39 2 90 550 IF(ICAT.EQ.3)GO TO 590 39213 139225 560 IF (I CAT. EQ. 4) GO TO 590 339230 339240 39250 570 IF (I CAT. EQ.5) GO TO 590 39260 FILTER OUT INAPPROPRIATE TARGETS FOR SPECIAL IDF "ISSIONS 580 IF(4.GT.32)GO TO 713 139250 39 290 IF(K.GT.32)GO TO 710

IF(K.EQ.3.AND.FLAG.ED.G..AND.PEPSF(J).NE.1.160 TO 710

IF(K.EQ.3.AND.FLAG.ED.G..AND.PEPSF(J).NE.1.160 TO 710 339300 IF(K.LT.16.AND.K.NE.3.AND.K.NE.12.APD.K.NE.13)GU IF(FLAG.EQ.2.AND.(K.LT.16.0R.K.GT.27))GO TO 710 1393: 13932: 23933: CALGULATE BATTERY MISSIONS FER THEE FOR THIS TYPE MISSION. 590 CONTINUE 339350 IF(T84T(I-42,J).LE.O.)GO TO 673 139360 BMT= (ELAT (I, J) -PLOSS(I, J.2))/TBAT (I-42, J) *CA (I-42, J) *S*? E*F*HOURS 33937: PROF(I-42, IFLAG, J) /PPM(I-42, J) FAC+AT+MWTHX/FDF(ICAT, J) 339393 SMT= BMT= PCM (J) 3 79 39

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	GEGRAD OF MISSIONS DUE TO NEW PLAY OF SHOKE	139400
	IF(J.EQ.1.AND.I.GE. 44.AND.I.LE.47) BPT #8HT+PCH1(J)	239410
•	IF(4.EQ.2.ANQ.(I.EQ.48.QR.I.EQ.50))ENT=EMT=FCM1(J)	139420
		039430
•	IF(FLAG.NE.1OR.J.EQ.2)GO TC 600	239440
	IF(I.NE.50.AND.I.NE.53)GO TO 630	039450
	IF(I.EQ.50.AND.150.EQ.1)GO TO 600	239460
	IF(I.EQ.53.AND.IS3.EQ.1)GO TO 500	939472
	IF(FAG+AT+FOF(ICAT,J).LE.J) GO TO 610	239490
	3MT=8MT+FOF(ICAT, J)/(FAC-AT+MWTHX)	339490
	CALL CLGP(Bat, I.PLOSS.Ch. 1)	139500
	BMT=BMT+FAC=AT=MMTHX/FDF(IGAT.J)	139512
	IF (I . £ Q . 5 C) I 5 Q = 1	039520
	IF(I .EQ.5G) CM50=CM	339530
	IF (T.EQ. #3) IF 3=1	139540
	IF (I . EQ. 53) CM53=CM	239550
c		339563
C	CALC. ANNO EXPENDITURES	139573
_60	G IF(J.EQ.2.OR.FLAG.NE.1.OR.(I.NE.50.ANC.I.NE.531)GO TO 510	039580
	If ([. Eq. 5 q) CM=CM5q	039590
	IF(I.EQ. 53) CM=CM53	039603
C	REDUCE CONVENTIONAL FIRE BECAUSE OF CLGF MISSIONS	339613
	SMT=BMT=(2.4CM/TBAT(I-42.J)FACTAT=MHTHX/FDF(ICAT.J))	139623
	If (3 MT.GE. 0.) GO TO 60 A	039533
	BH7= Q	339640
	PRINT +, "CLGP MISSIONS CAN NOT BE PROFERLY APPORTIONED TO ",K	139651
	PRINT 4, "LOWER MISSIONS OF EDUALIZE LEVELS"	23966:
	8 CONFINUE	339673
Ç		039680
61	O IS=ISHOT (I-42,1)	13969û
	ICAN # 0	239700
C	AMMO EXP CALC	039713
	X =TBAT(1-42, J) =RPM(1-42, J) =BMT/F	139723
_	IF(J.EG. 2)GO TO 620	339730
<u>c</u>	9LUE	0.79740
C	NON-TARGETED AMMO EXP CALC	339750
	IF(IS.EQ.17.09.IS.EQ.23.QR.IS.EQ.26)	139760
	1 SHOTSV(IS+1, J) =\$HOTSV(I\$+1, J) +. 03*X	039773
	IF(IS.50.17.09.IS.60.23.09.IS.60.26)	139780
	1 AH(INC+1)=AH(INC+1)+.03-X	13979;
	IF (ICAN, NE. 0) PRINT *. "IS +1", IS, SHOTSV (IS+1, J)	239907
C	IMPROVED CONVENTIONAL MUNITIONS-ANTIPERSONNEL (ICH-AF)	J3951:
	IF(K.EQ.3.ANO. IS.EQ.23) IS=IS+2	239921
	IF(K.EQ. 3. ANC. IS. EQ. 23) INC= INC+2	339831
	IF (1 I.GE. 44. AND. I.LE. 47). AND. PCM1(J).GT.0.) X=X/PCM1(J)	239843
_	IF (IS.Eq. 32) INC=INC+2	139451
<u> </u>	TARGETED ANNO EXP	239860 039971
	X1=X	030

X2=X1*PICM(I-42,J) 139891 X1=K1-X2 039930 AH (INC) = BH (INC) +X1 339910 <u> 13992:</u> SHOTSV(IS, J) = SHOTSV(IS, J) +X1 139930 SHOTSV(IS+2, J)=SHOTSV(IS+2, J)+X2
ANNO EXP FOR NEW PLAY OF SHOKE

IF(IS.NE.21.AND.IS.ME.19)GO TO 630
SHOTSV(IS+1, J)=SHOTSV(IS+1, J)+X*(1.-PCM1(J))
SHOTSV(IS, J)=SHOTSV(IS, J)-X*(1.-PCM1(J)) 139942 339950 39960 139973 139980 AH(ING+1)=AH(ING+1)+X*(1.-PCH1(J)) 039990 AH (INC) = AH (INC) - X- (1 . - PCH1(J)) END BLUE 140010 GO FO 630 140033 34584C 340350 NEXT LINE FOR NON-TARGETED AMMO EXP CALC 620 IF(I.T.52,AND.I.NE.46.AND.I.NE.44.ANC.I.NE.50)
1 SMOTSV(IS+1,J)=SHOTSV(IS+1,J)+.07+X 140060 340370 140080 TARGETED AMEN EXP 343390 IF((I.EQ.48.OR.I.EQ.53).ANQ.PC41(J).GT.9.)X=X/PCM1(J) 348130 X1=X 340110 040129 X2=PICH(I-42, J) *X1 X1=X1-X2 340140 1 X+ (L.21) V2 TOH2 = (L.21) V2 TOH2 240150 IF (IS.EQ.31.0R.IS.En.34)GO TO 623 040160 SX+(L,S+21)V2TOH2=(L,S+21)V2TOH2 GO TO 527 623 SHOTSV(IS+1, J) = SHOTSV(IS+1, J) +X2 045190 140190 627 CONTINUE 240290 ANNO EXP FOR NEW PLAY OF SHOKE IF (IS.NE. 24160 TO 630 846223 SHOTS4(IS+1, J)=SHOTS4(IS+1, J)+X+(1.-PCH1(J)) 140230 SHOTSV([S,J)=SHOTSV([S, J)-X+(1.-PCM1(J)) 140240 141250 SET ARD APRAY 340260 342273 IF (IFLAG.NE.2) GO TO 635 340290 X=(ELMT(I, J)-PLOSS(I, J, Z))-OA(I-42, J)-S-F-DE-ROF(I-42, 1, J)-FAC-AT 140 290 . -MITHY/FOF(ICAT, J) IF(CLEV(1, J) LE. 67)GO TO 535 40300 340313 IF(Y.LT.3.OR.K.GT.381GO TO 635 IF(J.EQ.1.AND.K.EQ.381GO TO 635 IF(J.EQ.2.AND.(K.GE.33.AND.K.LE.341)GC TO 635 940325 340 333 142341 ARO(L) =ARO(L) +X/60.

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635	CONF INUE	14036
447		24037
	CODE FOR BOTH HE AMO ICH	14238
	IC=ICH(I-42,J)	14339
		34345
		34341
		04342
		54043
		24344
	IF(IC.ED.Q)GQ TO 637	14045
	FCTATI=FCT (IC.KK.J)/AT	24046
	IF(J.EQ.1.ANO.I.EQ.53) FOTATI=.5-FOTATI	34:47
	IF(FOTATH.GE.1AND.FOTATI.GE.1.)GO TO 713	24348
37	PKILL(I-42)=1.	34849
	IF (FDT4TH.GE.1.) GO TO 649	1405
	PKILL(I-42)=(1F0TAT4)+++++++++++++++++++++++++++++++++++	34351
47		34652
	IF(FOTATI.GE.1.)GO TC 650	34653
		14054
50		34059
	. W.Y	94656
	44 14 34 3	34057
60	والمنافع والم والمنافع والمنافع والمنافع والمنافع والمنافع والمنافع والمناف	34054
	0 100 0 100 0 100 100 100 100 100 100 1	34059
70	· '.y''' - 41/4	34660
	TKILL= (1AKILL) = AT=TGT (KK, L)	34551
		3+362
	7.4	24363
	IF (5 KILL . LE. 0.) GO TO 713	34664
		34055
	IF(ELMT(I,J)-FLOSS(I,J,Z).LE.C.)GO 10 700	34056
		34267
	AKILL=IFIX(AKILL+10.+.5)/1).	14155
		34969
		74870
	8, 1, 123, 13, 14	3467
		34072
	PLOSS(K,L,1) =PLOSS(K,L,1) +IFIX(AKILL+10.+.JG1)/13.	34673
		84874
	ACCESS GREW KILLS.	34075
	IFIK .GT. 12) 4LOSS (1,2) =ALOSS (1,2) +IFIX (AKILL-C=EHS (K-12,L)+13.+.;;1	4.76
	1)** ACK(1)	34277
	IF (R.GT. 12) PLOSS (2, L, 1) =PLOSS (2, L, 1) +IFIX (AVILL-CPENS (K-12, L) +10.	14579
	7+.001)/10.	34393
	IFIK 7.21.0R.K.GT.25.0R.IMOUNT.EQ.11GO TO 700	34691
	IF(EQ.ID)GO TO 709 AKILL=IFIX(AKILL+60.+.5)/10.	34698
	ARILL IP IX (ARILL - BU.F. SY/ IU.	
		34243

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ACCESSMENT OF CISMOUNTED INFANTRY HEAFONS. 340440 IF(ELMT(KK,L)=PLOSS(KK,L,2).LE.0.)GO TO 6-0

ALOSS(I,KK)=ALOSS(I,KK)+IFIX(AKILL+PLT(KK)+10.+.0(1)+PACK(L)

PLOSS(KK,L,1)=PLOSS(KK,L,1)+IFI>(AKILL+FLT(KK)+10.+.3)1)/13. 343460 343870 346940 040990 698 CONFINUE 346988 700 CONTINUE 340910 710 CONFINUE 140920 141930 346945 728 CONFINUE 346950 IFITFLAG .NE . 21GO TO 830 043960 343975 IF (N MU(1).EQ.0) NH ((1)=1 IF (NHU (2) .EQ . 0) NHU (2) =1 340980 4°C(1) =APO (1) /NHU (1) 140990 ARD(2) =ARD(2) /NHU(2) 341030 IF (I A. EQ. 1) ARU(2) =4 RO(2) /FMASS 041312 IF (IA.E7.2) ARC(1) = ARC(1)/FMASS IF (CHS0.GT. 0.) CALL CLGP (9MT.50.PLCSS.CH50.2) 141620 341333 IF(GM53.GT.O.) CALL CLGP(OMT.53,PLOSS.CM53.2) 241740 X=4P0(1) :41150 TF(89)(2).G".ARO(1))X=4RO(2)

IF(X.LT.21)PRINT -, "NO DUST EFFECTS"

IF(X.GE.21.AND.X.LT.84)=RINT +,"LIGHT DUST EFFECTS"

IF(X.GE.34) GRINT +,"HEAVY DUST EFFECTS" 041360 341373 341693 14119: GO TO 430 341103 C 241113 725 IF(IPUN.EQ.1)50 TO 830

IF(IRUN.EQ.3)50 TO 830

730 IF(IFLAG-2) 740.750.760

740 PRINT *, " 30 YOU WISH TO SEE PPEP PRINTS?" 041123 341130 341140 341150 GO FO 770

750 PRINT *," OO YOU WISH TO SEE STANDARG PRINTS?"
GO FO 770

760 PRINT *," DO YOU WISH TO SEE FPF PRINTS?" 041153 34117: 34119: 041190 778 CONFINUE 341233 CALL REEDA (INX) 341213 IF(INX.EQ."N")GO TO 830 IF(INX.EQ."Y")GO TO 790 341223 341230 GO TO 730 34124 141250 790 PRINT 990 IF (IFLAG-2) 400,810,820 400 PRINT 4,"4---PREF/C-PREP ASSESSMENTS----341260 341270 GO TO 900
810 PRINT +, **STANCAPO TOF MISSION ASSESSMENT**
GG TO 900
820 PRINT +, ***-----FFF ASSESSMENTS------** 141291 141291 341331 341310

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M-129

N. W.

	GO TO 90C	04132
		341 331
	SUN LESSES QUE TO LAST TYPE OF MISSIGN.	141.14
830	00 840 K=1,55	04135
	CO 440 L=1.2	04136
	PLOSS(K.L,2) = PLOSS(K.L,2) +PLCSS(K.L.1)	04137
340	PLOSS(K.L.1)=0.	04138
	FLAG=FLAG+1	J4139
	ATAMAN CAR NEW TWO AS AS ASSOCIATION	24140
	BRANCH FOR NEXT TYPE OF HISSION	14141 14142
_	IF (FLAG.LT.3) GO TO 410	J4143
	OUTPUT RESULTS	• • • • •
	1F(IRUN.ED.1)GO TO 1960	06145
	PRINT 190	
90	FORMAT ("1")	34147
9 34	PRINT +, INCIPECT FIRE ASSESSMENTS	34148
900	00 1050 J=1,2	34149
	I POI NT =Q	14150
	L=1	34151
	IF(L.E0.J)L=2	0 41 52
	00 1050 K=1.55	74153
	TKILL=0.	34154
	clost=0.	34155
	IF(FLAG. En. 3) GO TO 920	04156
	AKILL=PLOSS(K,L,1)	34157
	IF (K .L"- 16. ANG. K. NE. 13) GO TO 910	34159
~ -	CLOST=AKILL+CREMS (K-1 2+L)	
710	TKILL=AKILL GU TO 978	34151
a2n	00 760 I = 63,55	54162
7 <u>6</u> U	IF(J.EQ.2)GQ 70 930	64153
	AKILL= (ALOSS (I,K) -IFIX(ALCSS (I,K)/PACK(1)) -PACK(1))/10.	34164
	GO TO 941	34165
930	AKILL=IFIX(ALOSS(I,K)/PACK(1))/10.	34166
940	IF(K.LT.16.ANO.K.NE.13)GO TO 950	34167
	CLOST=CLOST+AKILL+CRENS (K-12,L)	04168
950	7K1LL=1KILL+4KILL	34169
960	CONTINUE	34173
970	IF(TKILL.LT1.ANC.CLOST.LT1)GD TO 1850	34171
	IF(J.E0.2)G0 TO 990	34173
	PRINT 98C	34174
9 5 0	FORMAT(" I", 31X, "I")	24175
	PPINT 4,"I RED LOSSES TO BLUE I"	34176
	GO TO 1030	34177 04178
770	PFINT ", "*	44179
	bb Tul	9-1/-

PRINT 940 041813 041920 PRINT . "I BLUE LOSSES TO RED I" 1000 IPOINT=1 I* PRINT "."I ITEN #LOST CREW 041830 041540 1010 IF(K.LT.16.AND.K.NE.13) GO TO 1030 341859 PRINT 1020,K,TKILL,CLCST
GO TO 1050
1020 FOR AT (" I", TX, IZ, F9, 1, F7, 1, 6X, "I")
1030 PRINT 1040,K,TKILL
1040 FOR AT (" I", TY, IZ, F9, 1, 13Y, "I") 34146C 34147C 041980 641990 141900 1050 CONTINUE 341910 PRINT 960
PRINT 9, " THE TRANSPORTER TO THE TRANSPORT TO <u>141923</u> 041930 IF(FLAG.ME.3)GO TO 930
PRINT 890
1060 IF(IRUN.EG.1) PRINT *," INCIRECT FIRE ASSESSMENTS PRINTED HERE" 341943 641950 141960 041970 341980 INX= 0 CALL LOSS (43,58,1,53, INX) IF (INX.EG. "NO") GO TO 1070 341990 CALL CKSTOR(AH1, IPUT)
IPUT=-1 065300 34201: 04202: AH1="INPUT 36" CALL CKSTOR (AH1. IFUT)
00 1465 I=11.74
1065 AH(I)=ARRAY(I) 142030 342343 042953 CALL CKSTORIAHL, IPUT) 142060 1070 ENO 342970 M-131

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THE RESERVE

SUBTOUTINE CLGP: 1847.I.PLOSS.CM.IFLG)
COMMON IA.ID.IP.IENGAG, ITEPRN, IVIS, IMQUNT. MINES, CFPS, FSFPF, FPR. 342136 ATT ME . IFTRST . IPUN . NUPD . FPASS . IMAXKV . 14211: 2 SF(2) ,FSSF(2) ,P4CK(2) . 342123 ELTT(80.2) . ALOSS (66.66) . SHOTS (55.2) . CKILL (53.2) . SHOTS V (55.2) 362130 COMMON/REED/JOAY1,XINX(4),ICARO(20),IAPHOR 342140 CONTON/DATA/FPS(80.2).CFEHS(53.2).AFGS(12).CPGS(5).ITHERM(20.2). 1 PSN(6,2,2).PLT(15).KEY(171) 142150 COM ON/EH/PCOGR (2,4), IC OUNT (8) . ISMOKE (2), PCSMO(2), PCSSM(2), 450 (2) 34217: 342183 1 .NHU(2) DIMENSION PLOSS (55.2.2) . OA(17) 142195 COMMON/FCX/PREC (9) , DEGRAD (5,5,2) 142233 DINE METON OPERA(A) . PONSH (2) 042210 DIMENSION DUSTIS, 2) 14222: QATA ((QUST(I,J), I=1,5), J=1,2)/3*.6,2*0...03,4*0./
QATA (A/3*.78,.62,.0.10*.81,2*.85/
CATA (OPERA(I), I=1,8, 1/2*.76,2*.61,2*.76,2*.61/
DATA ((PAQ(I,J),I=1,5),J=1,4)/.33,.73,.93,.97,.96,
1,33,.73,.93,.96,.96,.14,.12,.37,.03,.01,5*2./
IF(IVIS.EQ.1)JVIS=1 342230 342240 042253 142263 342273 542230 342290 IF(IVIS.EQ.2.OR.IVIS.EQ.3)JVIS=2 IF(IVIS.EQ.4)JVIS=3 04230: <u>ifiivis.eq.5) ivis=6</u> 042313 IF(IFLG. E0.1)G0 TO 105 342320 242333 IF (ITER N. ED. 1. OR. ITERRN. ED. 2) PE XP=. 86 IF (ITERRN. EG. 3. OR. ITERR N. EG. 4) PFXP=.9 9 42 35 1 142350 L=2 16237 J=1 34238: CHS=0. 142391 CHECK FRIENCLY BARRAGE FARD=DUST(IVIS.2)

IF (AFC(L).LT.SA.)FARD=DUST(IVIS.1)

IF (AFC(L).LT.21.)FARD=1.

CHECK THREAT SARRAGE

TARD=DUST(IVIS.2) 342430 242413 142422 242433 342440 14245 IF (BRC (J).LT.44.) TARO=OUST(IVIS, 1)
IF (BRD (J).LT.21.) TARC=1. 342463 34247 USE DOMENANT THREAT 14248 IF IT APO. LT. FAROI AGUST=TARO 34253: 14251 DO 100 IEL=1,2 PGNSH(IEL)=(1.-PCSHO(IEL))=(1.-PCSHC(3-IEL)/2.)=(1.-PCSSH(IEL)) 142521 342533 100 CONTINUE 142540 GO TO 130 14255 165 MAX= 2-9HT 110 PRINT . " IS AN AERIAL DESIGNATOR IN USE?" 14256:

Company of the same

W. W.

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CALL REECA (INX) 142590 IF(INX.NE."Y".ANO.INX.NE."N")S=2
IF(S.EQ.2)PRINT +,"INCORRECT ENTRY"
IF(S.EQ.2)GO TO 110
120 PRINT +,"ENTED + CLGP HISSIONS TO FIRE (MAX=",MAX,") -" 142590 242500 342515 042620 CALL REEDS 142630 IF (CM.GT. MAX) PRINT ", "TOO BIG. CH RESET TO HAX" 34265C IF (CH.GT. HAX) CM=HAX 142660 IF (CH.GE.G. AND. CH.LE. HAY) RETURN 142670 PRINT +, "INCORRECT ENTRY - TRY AGAIN" 342683 GO TO 120 130 PRINT - "ENTER CLOUD HEIGHT - (1-5) " 142690 042700 042710 CALL REED4 ICH= XINX (1) IF(ICH.LT.0.0R.ICH.GT.5)GA TO 140 IF(ICH.E0.999)GO TO 150 142730 342743 GO FO 160 342759 342763 160 PRINT *, "INCORRECT ENTRY"

150 PRINT *, "ENTEP 0 IF RANGE IS LESS THAN 1500 M"

PRINT *, "ENTEP 1 IF RANGE IS 1500-1999 M"

PPINT *, "ENTER 2 IF RANGE IS 2000-2459 M"

PRINT *, "ENTER 3 IF FANGE IS 2500-2959 M"

PRINT *, "ENTER 4 IF FANGE IS 3000-4459 M" 342779 342790 42790 342900 342513 342520 PRINT ", "ENTER 5 IF RANGE IS 4580 M OR MORE" GO TO 139 342330 160 CONTINUE 042850 942873 FOF=0. CO 170 K=16,32 142880 170 FOF FOR FERT (K.L) + 04 (K-15) * PCNSH(L)
IF(INX.EG. *N*) GO TO 190 842990 342903 742910 042920 00 140 K=44.55 IF(K.EQ. 52) GO TO 180 FDF=FDF+ELMT (K,L) -OPERA (K-47)/2 198 CONTINUE 142935 198 CONFINUE 942953 142960 READ CLGP PK AND DEGRADATION FACTORS (FREC, DEGRAD) 142971 3429AC CALL COENDS(3.KEV.171.3) CALL READMS(3.PREC.59.35) 342993 CALL CLOSHS(3) 343913 Ĭ\$**=**1 343023 343333 643343 IF([NX.EQ. "Y") IS=2 IF(ICH.GE.1.AND.ICH.LE.5)G=DEGRAD(6-ICH,IVIS.IS)

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	IF(ICH_FO_0)G=0	14395
	DC 238 K=16.55	34335
	IF(FLMT(K.L).LE.9.)GO TO 230	14327
	IF(K.GT. 32.4NO.K.LT.48)GO TO 230	24338
	IF(INX.EQ. "N".ANO.K.GT.32)GO TO 230	3 4339
	IF(K.EQ.52)GO TO 230	24310
	IF (K . GE. 4a) GO TO 200	34311
	DAV= QA(K-15)+PCNSM(L)	04312
200	IF (K.GE. 48) GAV=OPERA (K-47)/2	94313
	FD=PREG(4)	94314
	IF (K.GT.17) FD=PREC(5)	34315
	IF (K .GT . 20) FD =PREC (7)	04316
	IF(4.EQ.21.OP.K.EQ.27.OR.K.EQ.26.OR.K.EQ.28)FD=PREC(6)	04317
	IF(K.EG.30)FD=PREC(5)	04315
	IF(K.EQ.31.09,K.EQ.32)FC=PREC(6)	14319
	IF (K .GE. 48) FD = PREC (5)	24320
	PPCN=PREC(8)	24321
	IF(INX.EQ. "Y" .AND.K .GE. 44)PRCN#PREC(9)	04322
	FD#FD+PRCN	34323
	I PSN =1	14324
	IF(L.EQ.ID)IPSN=2	34325
		34325
	IF(ELMT(K.L) = 0AV.LE.0.) GO TO 230	34327
	R=CY+ELMT(K,L)+OAV/FCF	14328
	IF (K.GE. 16.AND.K.LE.32) R=2+ FCNSM(J)	_04329
	C42= C43+#	04330
	R=R+G+PEXP+ADUST	24331.
	DEGRADE FOR FALSE TARGETS	34332
	R=R* . 7	24333
		34334
	T=EL HT (K, L) +O AV+PSN (IENGAG, IPSN, 2)	14335
	IF(INX.ED."Y".AND.K.GE.SOTT=ELMT(K,LT+04V	14335
	IF(FD/T.GT.1.)GO TO 230	34337
	AKILL=(1(1FD/T)-+(29))-T	14338
	AKILL=IFIX(AKILL+10.+.5)/10.	34339
		26360
	BRANCH FOR PERSONNEL TARGETS	_34341
	IF(K.EQ.3)GO TO 210	34342
	ALOSS(49,K)=ALOSS(49,K)+I*IX(AKILL+10.+.G(1)***ACK(L)	04343
	PLOSS(K,L,1)=PLOSS(K,L,1)+IFIX(AKILL+10.+.001)/13.	14344
		34345
	ACCESS CREW KILLS.	34346
	IF(K.GT.12) ALOSS(49.2)=4LCSS(49.2)+IFIX(AKILL-CREHS(K-12.L)-13.+.	CB 4347
	001)*PACK(L)	34349
	IF(x,GT.12)PLOSS(2,L,1)=PLOSS(2,L,1)+IFIX(AKILL+CFEHS(K-12,L)-1).	14349
	C+.00 1)/10.	44350
	IF(K.LT.21.0R.Y.GT.25.09. IMOUNT.ED. 1) GO TO 230	34351
	IF(L.EQ.ID)G0 TO 230	34352

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AKTLL=IFI)(#KILL+60.+.5)/10. AGGESSMENT OF DISHOUNTED INPANTRY MEAPONS.

210 CO 220 KK=3,15

IF(ELMT(KK.L)-PLOSS(KK.L,2).Le.c.)GC TO 220

ALOSS(69,KK)=ALOSS(69,KK)+IFIX(AKILL*PLT(KK)*10.+.201)*PACK(L)

PLOSS(KK,L,1)=PLOSS(KK,L,1)+IFIX(AKILL*PLT(KK)*10.+.201)/10.

220 CONTINUE 34354; 243550 343560 0 343580 943592 1435C: 230 CONTINUE 243510 143520 CH=GMS SHOTSV(35, J) = SHOTSV(35, J) +2.°CM RETURN 143630 943640 243650 143660 143670 END 0 0 M-135

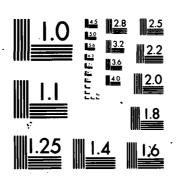
SUBROUTINE FORCE <u> 143690</u> 14371: COMMON IA. ID. IP. IENGAG. ITEPON. IVIS, IMCUNT, MINES, CFDE, FSEPA, FOR, <u>latiye.ifipsi.irun.ncrc.fyass.i:axkv.</u> 14371; 25F(2),FSSF(2),PACK(2), 143720 3ELMT (80.2).ALOSS (66.66) .SHOTS (55.2) .CKILL (53.2) .SHOTSV (55.2) 043730 COMMON/REED/JOAY1, XINX(4), ICARD (20), IARPOP 343740 COMMON/DATA/FPS(80.2).CREMS(53.2).A FOS(12).DPOS(6).ITHER 4(20.2). 143750 PS4 (6,2,21,PLT (151, KEY (171) 143750 COMMON/EN/PODGR(2.4).ICQUNT(A).ISMOKE(2).POSMO(2).FCSSM(2).AR3(2).143770 1 MM (2) 143780 COMMON/ONE/LFIT(35).AFRAY(90).HYBUF(1024).C(80.2).ACI. 14379 . ASCE NE , A SECT 343530 COMMON/THO/IFIT(35) .9 RRAY(46) .NYBUF(1824)
COMMON/THREE/IHIST(35), AM(98), IYBUF(1924) 943413 CTENSION CILISI 143831 DIMENSION TRRAY(2) 043940 EOUT VALENCE (ARRAY. IRRAY) 143850 CATA (CIL(I) .I=1,5)/1000.,5.,4.,2.5,1./ 343460 00 100 1=1.2 D= (L)UMM 043853 90 100 I=1.90 343890 0 (I. J) =0 . 100 ELMF (I. J) =0.0 043900 043910 IF (4CI.NE. 0.) GO TO 180 143925 043933 110 PRINT -, "ENTER CI MAEMONIC -" 643940 143950 CALL PEECB (ACI) 120 FORMAT (1410) 43963 CALL CKACI(ACID) 14397 IF (ACT.NE.O.. AND.ACT.NE.ACTO)GO TO 183 343993 IF (ACI.EO. 0.) GO TO 110 163997 344303 PRINT 130, ACI 130 FORMAT(" YOU CANNOT DO ASSESSMENTS FOR CI ", 413) 344315 344321 ACI= 0. 140 PPINT =, "DO YOU WISH TO RESET CI NMEHGNIC? 044330 344345 CALL REECA (IVN)
IF (IVN.EQ. "Y") GO TO 110 14415: 344360 IF (I YN. E 0. "4") GQ TQ 1320 34437: PRINT 50 C GO TO 140 150 FORMAT(" ",1A10) 344393 4439: 344150 IFIRST =- 1 GO TO 190 244110 344120 160 FORMAT (1A1) 170 FORMAT (" ",1A1) 344130 144145 14415: 190 PRINT ", "ENTER SECTOR NUMBER -" 24415

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(1) Q.999)GC TO 21Q E.O.ANO.INX.LE.9)GO TO 222 "INVALIO CPTICM ENTERED!" "ENTER 0 TO PROCEDE WITH ASSESSMENTS" " 1 TO LOAD UNITS INTO SECTOR" " 2 TO PENOVE UNITS FROM SECTOR" " 3 TO GREATE A NEW UNIT" " 4 TO ADJUST WANS IN A UNIT" " 5 TO AITAGM A UNIT TO A NEW PARENT" " 7 TO DELETE A UNIT FROM FONCE FILE" " 8 TO COMBINE UNITS" " 9 TO AUTOLOAD SECTOR" GO .00)GO TO 1190 90,760,470,380,857,880,680,280,230),INX "LOAD UNITS INTO THIS SECTOR FROM PREVIOUS CI?" DA(INX) Q."Y")GO TO 240 Q."N")GO TO 240 Q."N")GO TO 250 Q. NM(LFIT,3LI-O.1LR) N(LFIT,3LI-O.1LR) N(LFIT,2LFE) 1008)GO TO 270 (4).EQ.ASECT.OR.ASRAY(4).EQ1.*ASECT)GO TO 250	24430 14431 14433 14433 14434 14436 14436 14443 14444 14444 14444 14444 14444 14444 14444 14444 14444 14444 14444 14445 14453 14453 14453 14453 14453 14453 14453 14453 14453 14453 14453 14453
Q.999)GC TQ 21Q E.Q.ANO.INX.LE.9)GO TO 222 "INVALID CPTICM ENTERED!" "ENTER 1 TO PROCEDE HITH ASSESMENTS" 1 TO LOAQ UNITS INTO SECTOR" 2 TO REMOVE UNITS FROM SECTOR" 4 TO ADJUST MANS IN A UNIT" 5 TO ATTACH A UNIT TO A NEW PARENT" 7 TO DELETE A UNIT FROM FONCE FILE" 7 TO DELETE A UNIT FROM FONCE FILE" 9 TO AUTQLOAD SECTOR" Q.0)GO TO 1193 9Q.760.473.380.857.880.680.28C.230).INX "LOAD UNITS INTO THIS SECTOR FROM PREVIOUS CI?" DA(INX) Q."Y"IGO TO 240 Q."N"IGO TO 250 Q."N"IGO TO 250 Q."W"IGO TO 270 Q."TO COLLER) N(LFIT.3LI-O.1LR) N(LFIT.3LI-O.1LR) N(LFIT.3LFF) 1008)GO TO 271 (4).EQ.4SECT.OR.AFRAY(4).EQ1.*ASECT)GO TO 260	144 31 144 32 144 33 144 33 144 33 144 33 144 34 33 144 34 34 34 34 34 34 34 34 34 34 34 34 3
Q.999)GC TQ 21Q E.Q.ANO.INX.LE.9)GO TO 222 "INVALID CPTICM ENTERED!" "ENTER 1 TO PROCEDE HITH ASSESMENTS" 1 TO LOAQ UNITS INTO SECTOR" 2 TO REMOVE UNITS FROM SECTOR" 4 TO ADJUST MANS IN A UNIT" 5 TO ATTACH A UNIT TO A NEW PAPENT" 7 TO DELETE A UNIT FROM FORCE FILE" 7 TO DELETE A UNIT FROM FORCE FILE" 9 TO AUTOLOAD SECTOR" Q.0)GO TO 1190 90.760.472.380,857.880.680.280.230),INX "LOAD UNITS INTO THIS SECTOR FROM PREVIOUS CI?" DA(INX) Q."Y")GO TO 240 Q."N")GO TO 250 Q."N")GO TO 270	1 44 31 1 44 31 1 44 33 1 44 35 1 44 35 1 44 37 1 44 37 1 44 43 1 44 44 43 1 44 43
0.999)GC TO 210 E.O.ANO.INX.LE.9)GO TO 222 "INVALIO CPTICY ENTERED!" "ENTER 1 TO PROCEDE WITH ASSESSMENTS" " 1 TO LOAD UNITS INTO SECTOR" " 2 TO PENOVE UNITS FROM SECTOR" " 3 TO GREATE A NEW UNIT" " 4 TO ADJUST WANS IN A UNIT" " 5 TO ATTACH A UNIT TO A NEW PARENT" " 7 TO DELETE A UNIT FROM FORCE FILE" " 8 TO COMBINE UNITS" " 9 TO AUTOLDAD SECTOR" O.0)GO TO 1193 90,760,473,380,857,880,680,280,230),INX "LOAD UNITS INTO THIS SECTOR FROM PREVIOUS CI?" DA(INX) O."Y")GO TO 240 O."Y")GO TO 240 O."Y")GO TO 250 O. NM (LFIT,3LI-0.1LR) N(LFIT,3LI-0.1LR) N(LFIT,3LFE)	1 44 31 1 44 33 1 44 35 1 44 35 1 44 37 1 44 37 1 44 37 1 44 43 1 44 44 1 44 43 1 44 43 1 44 43 1 44 44 1 44 43 1 44 43 1 44 43 1 44 44 1 44 43 1 44 44 1 44 43 1 44 44 1 44 43 1 44 44 1 4
0.999)GC TO 210 E.O.ANO.INX.LE.9)GO TO 222 "INVALID CPTICM ENTERED!" "ENTER 1 TO PROCEDE HITH ASSESMENTS" 1 TO LOAD UNITS INTO SECTOR" 2 TO REMOVE UNITS FROM SECTOR" 3 TO CREATE A NEW UNIT" 5 TO ADJUST MPNS IN A UNIT" 5 TO ATTACM A UNIT TO A NEW PARENT" 7 TO DELETE A UNIT FROM FONCE FILE" 9 TO AUTOLOAD SECTOR" 0 O.0)GO TO 1193 90,760,473,380,857,880,680,280,230),INX "LOAD UNITS INTO THIS SECTOP FROM PREVIOUS CI?" DA(INX) 0."Y")GO TO 240 0."Y")GO TO 240 0."N")GO TO 200 0 NM(LFIT,3LI-0.1LR) N(LFIT,3LI-0.1LR)	1 44 31 1 44 32 1 44 33 1 44 35 1 44 35 1 44 37 2 44 37 2 44 4 37 2 44 4 3 2 44 4 4 2 44 4 4 2 44 4 4 2 44 4 5 2 44 5 2 5 2 6 2 6 2 7 2 8 2 8 2 8 2 8 2 8 2 8 2 8 2 8
0.999)GC TO 210 E.O.ANO.INX.LE.9)GO TO 222 "INVALID CPTICM ENTERED!" "ENTER 1 TO PROCEDE HITH ASSESMENTS" 1 TO LOAD UNITS INTO SECTOR" 2 TO REMOVE UNITS FROM SECTOR" 4 TO ADJUST MPNS IN A UNIT" 5 TO ATTACM A UNIT TO A NEW PARENT" 7 TO DELETE A UNIT FROM FONCE FILE" 9 TO AUTOLOAD SECTOR" 0.0)GO TO 1193 90,760,473,380,857,880,680,28C,23C),INX "LOAD UNITS INTO THIS SECTOR FROM PREVIOUS CI?" DA(INX) 0."")GO TO 240 0."")GO TO 203	1 44 31 1 44 31 1 44 33 1 44 35 1 44 35 1 44 37 1 44 37 1 44 43 1 44 44 1 44 43 1 4
Q.999)GC TQ 21Q E.Q.ANO.INX.LE.9)GO TO 222 "INVALID CPTICY ENTERED!" "ENTER 1 TO PROCEDE HITH ASSESSMENTS" " 1 TO LOAQ UNITS INTO SECTOR" " 2 TO REMOVE UNITS FROM SECTOR" " 3 TO CREATE A NEW UNIT" " 5 TO ATTACH A UNIT TO A NEW PARENT" " 6 TO DISPLAY A UNIT " " 7 TO DELETE A UNIT FROM FORCE FILE" " 8 TO COMBINE UNITS" 9 TO AUTOLOAD SECTOR" Q.0)GO TO 1190 9Q.760.472.380,857.880.680.280.230),INX "LOAD UNITS INTO THIS SECTOR FROM PREVIOUS CI?" DOA(INX) Q."Y")GO TO 240 Q."N")GO TO 200 G	1 44 31 1 44 31 1 44 33 1 44 35 1 44 37 1 44 37 1 44 37 1 44 41 1 44 41 1 44 42 1 44 43 1 44 43 1 44 45 1 44 49 1 4
0.999)GC TO 210 E.O.ANO.INX.LE.9)GO TO 222 "INVALID CPTICM ENTERED!" "ENTER 1 TO PROCEDE HITH ASSESSMENTS" 1 TO LOAD UNITS INTO SECTOR" 2 TO REMOVE UNITS FROM SECTOR" 3 TO CREATE A NEW UNIT" 4 TO ADJUST MPNS IN A UNIT" 5 TO ATTACM A UNIT TO A NEW PARENT" 7 TO DELETE A UNIT FROM FONCE FILE" 9 TO AUTOLOAD SECTOR" 0 O.0)GO TO 1193 90,760,473,380,857,880,680,280,230),INX "LOAD UNITS INTO THIS SECTOR FROM PREVIOUS CI?" DA(INX) 0."Y")GO TO 240 0."Y")GO TO 240 0."N")GO TO 200	1 44 31 1 44 33 1 44 35 1 44 35 1 44 37 1 44 37 1 44 37 1 44 43 1 44 44 1 44 45 1 4
0.999)GC TO 210 E.O.ANO.INX.LE.9)GO TO 222 "INVALID CPTICM ENTERED!" "ENTER 1 TO PROCEDE HITH ASSESSMENTS" 1 TO LOAD UNITS INTO SECTOR" 2 TO REMOVE UNITS FROM SECTOR" 3 TO CREATE A NEW UNIT" 4 TO ADJUST MPNS IN A UNIT" 5 TO ATTACM A UNIT TO A NEW PARENT" 7 TO DELETE A UNIT FROM FONCE FILE" 9 TO AUTOLOAD SECTOR" 0 O.0)GO TO 1193 90,760,473,380,857,880,680,280,230),INX "LOAD UNITS INTO THIS SECTOR FROM PREVIOUS CI?" DA(INX) 0."Y")GO TO 240 0."Y")GO TO 240 0."N")GO TO 200	1 44 31 1 44 32 1 44 33 1 44 35 1 44 35 1 44 37 1 44 43 1 44 43 1 44 44 1 44 44 1 44 44 1 44 44 1 44 45 1 44 45 1 44 45 1 44 53 1 54 53 1 5
0.999)GC TO 210 E.O.ANO.INX.LE.9)GO TO 222 "INVALID CPTICM ENTERED!" "ENTER 1 TO PROCEDE HITH ASSESSMENTS" 1 TO LOAD UNITS INTO SECTOR" 2 TO REMOVE UNITS FROM SECTOR" 3 TO CREATE A NEW UNIT" 4 TO ADJUST MPNS IN A UNIT" 5 TO ATTACM A UNIT TO A NEW PARENT" 7 TO DELETE A UNIT FROM FONCE FILE" 9 TO AUTOLOAD SECTOR" 0 O.0)GO TO 1193 90,760,473,380,857,880,680,280,230),INX "LOAD UNITS INTO THIS SECTOR FROM PREVIOUS CI?" DA(INX) 0."Y")GO TO 240 0."Y")GO TO 240 0."N")GO TO 200	1 44 31 1 44 33 1 44 33 1 44 33 1 44 35 1 44 37 1 44 43 1 44 44 1 44 43 1 4
Q.999)GC TQ 21Q E.Q.AND.INX.LE.9)GO TO 222 "INVALID CPTICY ENTERED!" "ENTER 1 TO PROCEDE HITH ASSESMENTS" 1 TO LOAQ UNITS INTO SECTOR" 2 TO REMOVE UNITS FROM SECTOR" 3 TO CREATE A NEW UNIT" 5 TO ATTACH A UNIT TO A NEW PARENT" 6 TO DISPLAY A UNIT " 7 TO DELETE A UNIT FROM FONCE FILE" 7 TO CHRITE A UNIT FROM FONCE FILE" 9 TO AUTQLOAD SECTOR" Q.0)GO TO 1193 9Q.760.473.380.857.880.680.28C.230).INX "LOAD UNITS INTO THIS SECTOR FROM PREVIOUS CI?" DA(INX) Q."Y"IGO TO 240 Q."N"IGO TO 250	1 44 31 1 44 32 1 44 33 1 44 35 1 44 37 1 44 37 1 44 37 1 44 41 1 44 42 1 44 43 1 44 44 1 4
Q.999)GC TQ 21Q E.Q.ANO.INX.LE.9)GO TO 220 "INVALID CPTICM ENTERED!" "ENTER 1 TO PROCEDE HITH ASSESSMENTS" " 1 TO LOAQ UNITS INTO SECTOR" " 2 TO REMOVE UNITS FROM SECTOR" " 3 TO CPEATE A NEW UNIT" " 5 TO AUJUST MANS IN A UNIT" " 5 TO AUTAGM A UNIT TO A NEW PARENT" " 6 TO DISPLAY A UNIT " " 7 TO DELETE A UNIT " " 7 TO COMBINE UNITS" " 9 TO AUTQLOAD SECTOR" Q.0)GO TO 1193 90.760.473.380,857,880,680,280.230),INX "LOAD UNITS INTO THIS SECTOR FROM PREVIOUS CI?" DA(INX) Q."Y")GO TO 240	1 44 31 1 44 32 1 44 33 1 44 35 1 44 35 1 44 35 1 44 35 1 44 43 1 4
0.999)GC TO 210 E.O.ANO.INX.LE.9)GO TO 222 "INVALIO CPTICY ENTERED!" "ENTER 1 TO PROCEDE HITH ASSESSMENTS" 1 TO LOAD UNITS INTO SECTOR" 2 TO REMOVE UNITS FROM SECTOR" 3 TO CREATE A NEW UNIT" 4 TO ADJUST MPNS IN A UNIT" 5 TO ATTACH A UNIT TO A NEW PARENT" 7 TO DELETE A UNIT FROM FORCE FILE" 9 TO AUTOLOAD SECTOR" 0 O.0)GO TO 1190 90,760,470.380,857,880,680,280,230),INX	1 44 31 1 44 32 1 44 33 1 44 35 1 44 35 1 44 37 1 44 43 1 44 43 1 44 43 1 44 43 1 44 43 1 44 44 1 4
Q.999)GC TQ 21Q E.G.AND.INX.LE.9)GO TO 222 "INVALID CPTICM ENTERED!" "ENTER 1 TO PROCEDE HITH ASSESMENTS" 1 TO LOAQ UNITS INTO SECTOR" 2 TO REMOVE UNITS FROM SECTOR" 3 TO CREATE A NEW UNIT" 5 TO ATTACH A UNIT TO A NEW PARENT" 6 TO DISPLAY A UNIT FROM FORCE FILE" 7 TO DELETE A UNIT FROM FORCE FILE" 9 TO AUTOLOAD SECTOR" G.01GO TO 1193 90,760,473,380,857,880,680,28C,23C),INX	1 44 31 1 44 32 1 44 33 1 44 35 1 44 35 1 44 37 1 44 37 1 44 43 1 44 44 1 4
Q.999)GC TO 21Q E.O.ANO.INX.LE.9)GO TO 222 "INVALIO CPTICM ENTERD!"" " 1 TO POCCEDE HITH ASSESSMENTS" " 1 TO POCCEDE HITH ASSESSMENTS" " 2 TO PENOVE UNITS FRCM SECTOR" " 3 TO CPEATE A NEW UNIT" " 4 TO ADJUST MPNS IN A UNIT" " 5 TO ATTACM A UNIT TO A NEW PARENT" " 6 TO DISPLAY A UNIT" " 7 TO DELETE A UNIT FROM FORCE FILE" " 8 TO CUMBINE UNITS" " 9 TO AUTOLOAD SECTOR" G Q.00GO TO 1190	1 44 31 1 44 31 1 44 33 1 44 35 1 44 35 1 44 37 2 44 37 2 44 37 2 44 41 1 444 2 1 444 3 2 444 4 2 444 4 1 444 5 1 444 6 1 4
Q.999)GC TO 21Q E.O.ANO.INX.LE.9)GO TO 222 "INVALIO CPTICM ENTERD!"" " 1 TO POCCEDE HITH ASSESSMENTS" " 1 TO POCCEDE HITH ASSESSMENTS" " 2 TO PENOVE UNITS FRCM SECTOR" " 3 TO CPEATE A NEW UNIT" " 4 TO ADJUST MPNS IN A UNIT" " 5 TO ATTACM A UNIT TO A NEW PARENT" " 6 TO DISPLAY A UNIT" " 7 TO DELETE A UNIT FROM FORCE FILE" " 8 TO CUMBINE UNITS" " 9 TO AUTOLOAD SECTOR" G Q.00GO TO 1190	1 44 31 1 44 31 1 44 33 1 44 35 1 44 37 1 44 37 1 44 37 1 44 41 1 44 42 1 44 43 1 44 43 1 44 43 1 44 43
Q.999)GC TO 21Q E.O.ANO.INX.LE.9)GO TO 222 "INVALIO CPTICM ENTERD!"" " 1 TO POCCEDE HITH ASSESSMENTS" " 1 TO POCCEDE HITH ASSESSMENTS" " 2 TO PENOVE UNITS FRCM SECTOR" " 3 TO CPEATE A NEW UNIT" " 4 TO ADJUST MPNS IN A UNIT" " 5 TO ATTACM A UNIT TO A NEW PARENT" " 6 TO DISPLAY A UNIT" " 7 TO DELETE A UNIT FROM FORCE FILE" " 8 TO CUMBINE UNITS" " 9 TO AUTOLOAD SECTOR" G Q.00GO TO 1190	1 44 31 1 44 32 1 44 33 1 44 35 1 44 35 1 44 35 1 44 35 1 44 43 1 44 43 1 44 43 1 44 43 1 44 43 1 44 43
Q.999)GC TO 21Q E.O.ANO.INX.LE.9)GO TO 222 "INVALID CPTICM ENTERED!" "ENTER 1 TO PROCEDE HITH ASSESMENTS" " 1 TO LOAQ UNITS INTO SECTOR" " 2 TO REMOVE UNITS FROM SECTOR" " 3 TO CREATE A NEW UNIT" " 4 TO ADJUST WPNS IN A UNIT" " 5 TO ATTACM A UNIT TO A NEW PARENT" " 6 TO DISPLAY A UNIT " " 7 TO DELETE A UNIT FROM FONCE FILE" " 8 TO CUMBINE UNITS" " 9 TO AUTOLOAD SECTOR"	1 44 31 1 44 31 1 44 33 1 44 35 1 44 35 1 44 37 2 44 38 2 44 37 2 44 43 3 44 41 3 44 42 3 44 44
Q.999)GQ TQ 21Q E.Q.AND.INX.LE.9)GO TO 220 "INVALID CPTICM ENTERED!" "ENTER 0 TO PROCEDE HITH ASSESSMENTS" " 1 TO LOAQ UNITS INTO SECTOR" " 2 TO REMOVE UNITS FROM SECTOR" " 3 TO CPEATE A NEW UNIT" " 5 TO ADJUST WPNS IN A UNIT" " 5 TO ATTACH A UNIT TO A NEW PAPENT" " 6 TO DISPLAY A UNIT" " 7 TO DELETE A UNIT FROM FOMCE FILE" " 8 TO COMBINE UNITS" 9 TO AUTOLOAD SECTOR"	1 44 31 1 44 31 1 44 33 1 44 35 1 44 35 1 44 37 2 44 37 2 44 37 2 44 43 2 44 42 1 44 43
Q.999)GC TO 21Q E.O.ANO.INX.LE.9)GO TO 22? "INVALIO CPTICM ENTERED!" "ENTER 0 TO PROCEDE WITH ASSESSMENTS" "1 LO LOAD UNITS INTO SECTOR" 2 TO REMOVE UNITS FROM SECTOR" 3 TO CPEATE A NEW UNIT" 4 TO ADJUST MANS IN A UNIT" 5 TO ATTACM A UNIT TO A NEW PARENT" "6 TO DISPLAY A UNIT TO A NEW PARENT" "7 TO DELETE A UNIT FROM FORCE FILE" "8 TO CUMBINE UNITS"	1 44 30 1 44 31 1 44 33 1 44 35 1 44 35 1 44 36 1 44 36 1 44 36 1 44 36 1 44 4
Q.999)GC TO 21Q E.O.ANO.INX.LE.9)GO TO 22? "INVALIO CPTICM ENTERED!" " 1 O PROCEDE MITH ASSESSMENTS" " 1 O PROCEDE MITH ASSESSMENTS" " 2 TO PENOVE UNITS FROM SECTOR" " 3 TO CPEATE A NEW UNIT" " 4 TO ADJUST MPNS IN A UNIT" " 5 TO ATTACH A UNIT TO A NEW PARENT" " 6 TO DISPLAY A UNIT FROM FOMCE FILE"	14430 14433 14433 14435 14435 14436 14436 14436 14443
Q.999)GC TO 21Q E.0.ANI.DR.LE.9)GO TO 222 E.0.ANI.DR.LE.9)GO TO 222 E.0.ANI.DR.LE.9)GO TO 222 E.0.ANI.DR.LE.9)GO TO 222 E.0.ANI.DR.LE.9 E.0.AN	14431 14433 14433 14433 14435 14435 14436 14436 14436
Q.999)GQ TQ 21Q E.Q.AND.INX.LE.9)GO TO 222 "INVALID CPTICM ENTERED!" "ENTER 1 TO PROCEDE HITH ASSESSMENTS" " 1 TO LOAQ UNITS INTO SECTOR" " 2 TO REMOVE UNITS FROM SECTOR" " 3 TO CPEATE A NEW UNIT" " 4 TO ADJUST MPNS IN A UNIT" " 5 TO ATTACH A UNIT TO A NEW PARENT"	1 44 31 144 31 144 32 144 33 144 34 144 35 144 37 144 37 144 37
Q.999)GC TO 21Q E.Q.AND.INX.LE.9)GO TO 220 "INVALID CPITCM ENTERED!" "ENTER 0 TO PROCEDE WITH ASSESSMENTS" " 1 TO LOAQ UNITS INTO SECTOR" " 2 TO REMOVE UNITS FROM SECTOR" " 3 TO GREATE A NEW UNIT" " 4 TO ADJUST WPNS IN A UNIT"	14430 34432 34433 34434 24434 14436 24437
Q.999)GQ TQ 21Q E.0.AND.INX.LE.9)GO TO 22? "INVALID CPTICM ENTERED!" "ENTAR O TO PROCEDE HIT ASSESSMENTS" " 1 TO LOAD UNITS INTO SECTOR" " 2 TO REMOVE UNITS FROM SECTOR" " 3 TO GPEATE A NEW UNIT"	24430 34431 24432 24434 24434 24434 24436 24436
Q.999)GQ TO 21Q E.O.ANO.INX.LE.9)GO TO 222 "INVALIO OPTICM ETTERED!" "TO PROCEDE HTIM ASSESSMENTS" "TO PROCEDE HTIM ASSESSMENTS" "TO PENOVE UNITS INTO SECTOR" "TO PENOVE UNITS FROM SECTOR"	74439 34431 34432 34433 34434 74435
Q.999)GC TO 21Q E.O.ANO.INX.LE.9)GO TO 220 "INVALID CPTICM ENTERED!" "ENTER 1 TO PROCEDE HITH ASSESSMENTS" " 1 TO LOAD UNITS INTO SECTOR"	94430 J4431 J4432 J4433 J4434 J4435
0.999)GC TO 210 E.O.ANO.INX.LE.9)GO TO 220 "INVALIO OPTION ENTERED!" "ENTER 0 TO PROCEDE WITH ASSESSMENTS"	74430 34431 34432 34433 34434
0.999)GC TO 210 E.G.AND.INX.LE.9)GO TO 220 "INVALID OPTION ENTERED!"	74430 34431 34432 34433
0.999)GC TO 210 E.O.ANO.INX.LE.9)GO TO 222	74430 34431 34432
0.999)GC TO 210	74430 J4431
	24430
04	344.00
"??? O P T I O Y ???"	24425
ar(Iregm)	34427
EG.1.OR.IRUN.EG.3)IREGY="Y"	24426
	34425
SET (ISEED)	14424
I+ASECT	34423
	34422
	04421
	24420
· ·	34419
	34417

ARMY COMBINED ARMS STUDIES AND ANALYSIS ACTIVITY FOR--ETC F/G 15/7 CACDA JIFFY III WAR GAME. VOLUME V. PROGRAMMER'S MANUAL.(U) AD-AU92 783 OCT 80 C L PAO CASAA-TR-9-80 UNCLASSIFIED NL or 5 END DATE 84: DTIC



MICROCOPY RESOLUTION TEST CHART NATIONAL BUREAU OF STANDARDS-1963-A

	CALL PEPLC(LETT.ARRAY.901.ARRAY(1))	2446
	IF (ARRAY (4) . Q. ASECT) INC=INC+1	3446
	GQ TQ 250	1446
		3446
270	CALL CLOSEM(LFIT)	3446
	PRINT ", INC," UNITS WERE LOACED INTO THIS SECTOR"	0 447
	GO TO 200	9447
		3447
		0447
280	CALL COMBINE	3447
	GO TO 29 0	3447
		0447
		3447
290	PRINT -, "ENTER PARENT OF UNIT(S) TO SE LCADED INTO SECTOR -"	3447
	CALL REECH (ARRAY(1))	3447
	PARE NT=ARR 4Y (1)	3448
	ARR1 Y(7) = 99999.	3445
	CALL UPENM(LFIT, JLI-0,1LR)	3444
	CALL GET (LEIT ARRAY AARRAY (1) - 0 - 1 C)	
	IF(ARPAY(7).NE.99999.)GO TO 310	0448
	PPINT 100, PARENT	3448
3 Q O	FORMAT(" UNIT ",A10," IS NOT ON FORCE FILE!")	3446
	GO TO 360	9444
		3468
		3448
310	PRINT +, "ENTER UNIT ID (OR ALE) -"	3449
	CALL REEDS (UNIT)	0 44.9
		3449
	IFLAG=1	3449
320	IF (UNIT.EQ. "ALL")GO TO 340	3449
===	IF (ARRAY (2) . EQ. UNIT 160 TO 340	1669
330	CALL GETN(LFIT, ARRAY, ARRAY(1))	3449
	M=IFETCH (LFIT, 2LFF)	5649
	IF(4.Eq.1008) GO TO 350	3449
	IF (ARRAY (1) . NE. PARENT 160 TO 350	344
	GO TO 320	0450
24.0	ARRAY(4) =ASEC"	0451
340		
	ARRA Y (5) = ACI	3450
	IFLAG=1 CALL	0.450 3.450
	GO TO 330	2450
	AA . A 234	9470
164	IF(IFLAG.EQ.O)PRINT 300.UNIT	2453
	CALL CLOSEN(LFIT)	0450
	PRINT +, "LOAD ANOTHER UNIT?"	0450
J 7 'J	CALL REEDA (INX)	1451
	IF(INX.EQ. "Y")GO TO 290	2451
	AFTANTAGETS F FOU TO 670	4771

IF(INX.ED."N")GO TO 200 PRINT 500 045143 GO TO 370 245150 245160 345175 380 PRINT ", "ENTER PARENT OF UNIT TO BE ACULSTED -" 045180 CALL REEDS (ARRAY(1)) 345190 Ċ 345203 PRINT *, "ENTER UNIT IC-"
CALL REECB(ARRAY(2)) 345213 045223 045230 ARRAY(7) =90909 045240 CALL OPENM(LFIT.JLI-C.1LR)
CALL GET (LFIT.ARPAY, ARRAY(1)) 345260 IF (BRRAY (7) . ED. 909091GO TO 460 PRINT -, TENTER WPN ID. NEW GTY--0.0 WHEN DONE C45 27C 345280 390 CALL REEGA 145290 MM=YINX(1) 0 45300 145 31: (S)XKIX=LA IF (MM.EQ.0) GO TO 420 14532: IF(MM.LT.0.0R.MM.GT.80)GO TO 410 IF(ARRAY (MM+10) +AJ.LT.0.)GO TO 400 945333 345340 ARRAY (MM+10) = ARRAY (MM+10) +AJ 34535 PRINT +, "NEXT-" 04536: GO TO 390 04537:
460 PRINT *, "ENTRY REDUCES * MEAPONS IN UNIT BELOWZERO - ENTRY IGNOREDIASSES 345390 14540: 14541: GO TO 390

PRINT + "INVALID ITEM CODE - ENTRY IGNOREC!"
GO TO 390 04542: IF(IRUN.EG.1)GO TO 440 J=ARRAY(3) 34543: 34544: UEFF =0. 00 436 1=1,80 IF (ARRAY(1+19).LE.0.)GO TO 430 14545 345467 34547 UEFF =UEFF+ARRAY (I+10) -FPS (I,J) 14548 430 CONTINUE IF (ARRAY (6) .EQ.Q.)GQ TO 435 14540 14551 UEFF=UEFF/ARRAY(6) *100. 14551: 14552: 14553: CALL REFLC(LFIT, ARRAY, 900, ARRAY(1))
440 CALL CLOSENILFIT)
450 PPINT *, "ANYHORE UNITS TO CHANGE?" 34554. 14555 CALL REEDA (INX) 14556: IF(INX.EQ. "Y")GO TO 340
IF(INX.EQ. "N")GO TO 200 :4557: 14555: 4559 PRINT 510 14561 50 TO 450

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CAN.

463	DOTAT TOO. ACCAMASI	24561
904	PRINT 300. 4PPAY(2) APRAY(7)=0.	14562
	GO 70 440	14563
		34564
470	KIND="9LUE"	24565
	9RR6 Y(1) *"SRC"	04566
	Jat	24567
450	PRINT 490.KINC	04568
490	FORMAT (" ARE THERE ANY ".A4." UNITS TO CREATE?")	34569
	CALL PEECA (INX)	84570
	IF(INX.EQ. "Y")GO TO 510	14571
	IF (INX.EQ. "N") GO TO 670	04572
	PRINT SOC	14573
	60 10 480	34574
510	FORMATI" INCOPRECTE RESPONSE MUST BE YES OR MC - TEV AGAIN")	24579
	ADM M431 = 4	34576
510	ARRAY(3) = J	14577
	DO 520 INX=11.90	04576
7.60	ARRAY(INY)=0 PRINT -, "ENTER PARENT UNIT IC -"	34579 34540
	CALL RE CB (ARRAY (1))	04531
	PRINT *, "ENTER UNIT IC -"	34593
	CALL REEDB (ARRAY(2))	14584
570	PRINT 4, "CREATE BY SPC'S?"	34585
-29. ¥.	CALL DEECA(INX)	14546
	IF (INX.EQ."Y")GO TO 610	34557
	IF (INX.EG. "N" IGO TO 540	24565
	PRINT 50 1	14599
	GC TO 53C	04590
540	ACD8 V / 61 - 0	24591
- P W.	PRINT -, "ENTER MPN ID. GTY C. O WHEN DONE "	0 459
550	CALL REECA	14593
	HMST INX(1)	14594
	(\$) x lT x = LA	14595
	IF(\m.EQ.0) GO TO 560	34596
	4 RORY (MM +10) = ARRAY (MM+1 () +4J	34597
	ARRAY(6) = ARRAY(6) + AJ* FPS(MM, J)	34595
	PRINT 4. "NEXT -"	14599
	GO TO 550	04600
560	PPINT . "ENTER PELATIVE EFFECTIVENESS -"	34631
	CALL REEC4	34618
	Cyan Inx(1)	34503
	IF(CV.GE.GAND.CV.LE.10030.)GO TO 570	54634
	PRINT . "INVALID REL. EFF TOY AGAIN!"	34639
	GC TO 560	34636
<u> 570</u>	ARRY (6) =4994Y(6) -130./CV	34537

To serve

IFITRUN-EQ. 1) GO TO 580 :45103 GALL OPENM (LFIT. 3LI-0.1LR)
CALL OUT (LFIT, AFRAY, 900, ARRAY(1)) 046113 346120 CALL CLOSEM(LFIT)
580 00 590 I=11,90 046130 346140 590 ARRAY(I)=0
600 PRINT * "CREATE ANOTHER UNIT FOR THIS FORCE? 046150 74516C GALL PEECA (INX)

IF (INX.EG. "Y") GO TO 510

IF (INX.EG. "N") GO TO 670 346170 046180 346190 PRINT 500 J46203 GO TO 600 610 PRINT *, "ENTER SRC--O WHEN DONE" 3 46213 3 46 ZZC ARRAY (6) = 0 34<u>623</u>0 620 CALL REE38 (9RRAY(2)) IF(3RRAY(2).EQ.-G-)GO TO 560 9RRAY(3)=90909 146 240 346250 846260 CALL OPENM(IFIT. 3LI-0,1LP)
CALL GET (IFIT, BREAY, BREAY(1)) 046280 CALL GLOSEM(IFIT)
IF (BRAN (3).EQ.90909) GO TO 650 146290 146380 746313 846323 00 638 IJ=1.22 JJ=1J+5+1 INX=BERAY(JJ)
IF (INX.EQ.0)GO TO 630 34633: 34634: ARRAY(5)=ARRAY(6)+BRRAY(JJ-1)+FPS(INX-J) 345350 146360 00 540 1=3,24 346370 546380 640 8491 Y(1)=0 PQINT -, "NEXT-" 246399 146405 GO TO 620 650 PPINT 660,8RRAY(2) 3RRAY(3)=0 660 FORMAT(" SRC ",1410," NOT ON FILE") 346413 346420 646430 14644 PRINT 4, "NEXT -" 346450 24646: 346473 678 IF (J.EQ. 2) GO TO 230 346490 46493 3455G: KIND="REO" 346510 60 TO 480 GOO PRINT ". "ENTER PARENT OF UNIT(S) TO BE JELETED -"
CALL REETBIARRAY(1)) 346530 24654: :4655 CALL OPENM(LFIT.3LI-0.1LR) PARENT-ARRAY(1) 146560

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1.11

ARRAY(7)=90909	1465
CALL GET (LFIT, APRAY, ARRAY (1), 0, 10)	3465
IF (ARRAY (7) .NE. 90909) GO TO 690	1465
PRINT 30 C. PARENT	3466
GO TO 740	0466
	3466
90 PRINT " "ENTER UNIT ID (OR ALL) -"	1456
CALL REECB (UNIT)	0466
	3460
IFLAG=0	0466
GR IF(JNIT.EQ."ALL")GO "O 72C	5466
IF CUNIT. EQ. ARRAY (2))GO TO 720	3465
11 CALL GETN(LFIT, ARRAY, ARRAY(1))	
M=IFETCH (LFIT, 2LFF)	5467
IF(ARRAY(1).NE.PARENTIGO TO 730	0467 0467
GO TO 700	1467
	3467
20 CALL DITE(LETT.ARRAY(X))	
TFLAG=1	2667
_ GQ TQ 710	3457
	3467
30 IF (IFLAG.EG. 1) PRINT 300 UNIT	3467
40 CALL CLOSEN(LFIT)	0468
'50 PRINT ", "ANOTHER UNIT TO DELETER"	0466
CALL REEDA (INX)	8468
IF(INX.FQ."Y")GO TO 680	<u> </u>
IF (INX.ED. THT) GO TO 200	3469
PRINT 50 C	2464
GO TO 750	2468
	3468 3468
GO PRINT +, "ENTER PARENT OF UNIT(S) TO BE PEMOVED -"	
CALL PEECB (ARRAY (1))	3469
CALL OPENM (LFIT, 3LI-0.1LR)	3463
PARENT =ARRAY (1)	G 469
ARRAY(7) =90909	1469
CALL GET (LFIT, ARRAY, ARRAY (1), J. 10)	3469
- IF (ARPAY (7) . NE. 90909) GO TO 770	3469
PRINT 30 O. PARENT	3469
GO TO 930	3469
	3469
70 PRINT + "ENTER UNIT IC (OR ALL) -"	3469
CALL PEEDS (UNIT)	1471
IPL#G=0 ·	ü47,
'AG IF WHIT.EG. TALLTIGG TO 929	3479
IF CONIT. EQ. ARRAY (2)) GO TO 300	3473

790 CAL GETNILFIT ARRAY APRAY(1))
HE WETCH (LFIT, ZLFP) 347360 IF (M.EQ. 1 G08) GQ TO 428 14727: IF (APPAY (1) . NE. PARENT) GO TO 820 347380 GO TO 782 047390 64710: ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 15 | ### 04712: IFLAG=1 04713: 00 610 II=76,90 ARRAY(II)=0. 047140 810 CONTINUE 047160 CALL REPLC(LFIT, ARRAY, 900, ARRAY(1))
GO TO 790 847170 347180 347190 920 IF(IFLAG.EQ.C)PRINT 300.UNIT 347210 830 CALL CLOSEM(LFIT) 847223 440 PPINT . "PEMOVE ANGTHER UNIT?" CALL REECA (INX) 347240 IF(INX.EQ. "Y")GQ TO 760 IF(INX.EQ. "Y")GQ TO 230 347250 14726: 347270 60 TO 940 347280 347300 850 PRINT 4. "ENTER PARENT IC OF UNIT BEING ATTACHED -" C47310 CALL REELS(PARENT) 347320 347330 PRINT +, "ENTER UNIT ID -" CALL PEECB (ARRAY(2)) 147 350 0 47 360 CALL GPENM(LFIT, 3LI-0,1LP)

ARRAY(1) = PARENT

ARRAY(7) = 99999.

CALL GET (LFIT, ARRAY, ARRAY(1))

IF(ARRAY(7), EQ. 99999.)GO = 0 470 347373 347390 147390 247400 34741 14742 PPINT *, "ENTER MEN PARENT IC -"
CALL PEETS (PAP)
ARRAY(1) = PAR 147430 34764 04745 CALL PUT (LPIT, ARRAY, 900, A FR AY (1)) 34746: ARRAY(1) = PARENT CALL OLTE(LFIT, APRAY(1)) 04747 247450 047497 CALL CLOSEN(LFIT) 34750: 860 PRINT . "ATTACH ANOTHER UNIT?" C4751 CALL PEECA (INX) 247525

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Or Born

	IFILMX.EQ. "Y") GO TO A SO	04753
	IF(INX.EQ."N")GO TO 200	34754
474	ANTHO TAX INCO	
7/0	PRINT 30 7. UNIT	34756i 34757i
	ARRAY(7) ≠0.	
	60 10 300	i 4758
	DISPLAY SECTION	14759°
	PRINT *, "ENTER TYPE OF DISPLAY -"	34761
99.4	CALL REED4	14762
	INX= XINX (1)	14763
_	IF(INX.EQ.999)GC TO 890	34754
	IF (INX.GE.1.4 NO.INX.LE.4) GO TO 910	34765
	PRINT "INCORRECT ENTRY!!"	14756
190	PRINT ". "ENTED 1 TO DISPLAY ALL PAGENT UNITS IN FORCEFILE"	14757
4-2-4	PPINT 90 0. ASECT.ACI	14758
988	FORMAT (" 2 TO DISPLAY ALL PARENT LNITS IN SECTOR ". FG. G.	24759
	" IN CI ".A10)	34773
•	PRINT +, " 3 TO DISPLAY UNITS IN A SPECIFIC PARENT"	14771
	PRINT 4." 4 TO CISPLAY HEAFONS IN A UNIT"	34772
	GO_TQ_84.0	14773
		34774
	GO TO (920.920.1070.1170).INX	34775
		04776
	DISPLAY ALL PARENT UNITS	24777
920	a vet Natural Comment	34778
	IFLAG=0	34779
	UEFF = 0.	34790
	TFPS=G.	J4751.
	CALL OPENM(LFIT.3LI-0.1LR)	34752
930	CALL GETN(LFIT, ARRAY. ARRAY(1))	04753
	M=IFETCH (LFIT, 2LF9)	34794
	IF(4.E9.1008) GO TO 1030	347450
	IF(ARRAY(1).NE.PARENT)GO TO 970	34796
940	XSECT=APRAY(4)	34797
	XCI=APRAY(5)	34758
	IF(INX. = Q. 1) GO 70 950	0 4749
	IF (ASECT.NE.XSECT.OP.ACT.NE.XCI)GO TO 930	34790
950	J=ARRAY(3)	34791
	TFPS=TFPS+ARRAY(6)	34792
	00 960 I=1,90	34793
	IF(ARRAY(I+10).LE.0.1GO TO 960	54794
	UEFF = UEFF + ARRAY (I+10) - FPS (I, J)	24795
360	CONTINUE	14796
	60 10 931	04797
	184981 AC CO A LOR TA ARRA	34798
7/5	IF(IFLAG.EQ.1)60 TO 1007	347991

1 3 W 16.

	IF(INX.EQ.1)GO TO 988	04901
	PRINT +, "FORCE ID EFF"	04602
	GO TO 99 C	54973
980	PRINT +, "FORCE ID EFF SECT CI"	ü 48 J 4
990	IFLAG#1	04825
	GO FO 1060	34606
.000	IF(M.EQ.1008.AND.IFLAG.EQ.0)GO TO 1160	34807
	IF(INX.EG.2.AND. (ASECT. NE.XSECT. OR. ACI. NE.XCI))GO TO 1060	34658
	IF(TFPS.GT.0.)GO TO 1010	34833
	U EFF = 999 •	14813
	GO TO 1929	34811
610	UEFF=UEFF/TFPS*100.	34812
020	IF (INX.EQ.1) GO TO 1040	84913
	PRINT 1030.J.PARENT.UEFF	04914
.030	FORMAT (* ", I3.4X, A10.2X, F4. C)	94415
	GO TO 1060	34816
040	PPINT 1050. J. PAPENT . UEFF. XSECT. XCI	34417
	FORMAT(" ",13,4x,410,2x,2(F4.0,2x),410)	34816
	PARENT=ARRAY(1)	34819
	UEFF = 0.	34920
	TFPS=0	34821
	IF (M.EQ. 1008) GO TO 1150	34422
	GO TO 940	34823
		14824
	DISPLAY UNITS IN SPECIFIC UNIT	94425
976	PRINT . "ENTER PARENT IC -"	3 4926
	CALL REEUS (PARENT)	34527
	APRAY(1) = PARENT	34829
		14829
	ARRAY(7) =99999.	34830
	IFLAG#9	34831
	CALL OPENM(LFIT.3LI-0.1LR)	14832
	CALL GET (LFIT, ARRAY, A GRAY (1), 0, 10)	94433
	IF (A RRAY (7) . NE. 99999.)GO TO 1090	24834
	PRINT 300. PARENT	34839
	GQ FQ 1160	04836
		246 37
1380	CALL SETH(LFI", ARRAY, ARRAY(1))	34939
	H=IFETCH (LFIT, 2LFF)	34839
	IF(M.EQ.1409) GO TO 1160	34940
	IF (PARENT.NE. ARPAY(1))GO TO 1160	54441
000	UEFF = 0.	04842
	J=ARRAY(3)	14843
	IF(A RRAY (4) .LT. 0.) A RRAY (4)=0.	24844
	DC 1100 I=1.60	24845
	TF(ARRAY(I+10).LE.Q.)GO TO 1103	34845
	UEFF #UEFF + ARR AY (I + 13) * FPS (I , J)	14841
4 4 8 6	CONTINUE	1494
* 7 6 6	COULTURE	19745

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	IF(A RRAY (6) . GT . G .) GO TO 1111	14849
	U£FF = 999 .	14851
	GO TO 1129	<u> 14951</u> .
	USFF =USFF/ARRAY(6) + 10 C.	94452
1120	IFITFLAG.EQ.11GO TO 1149	344530
	IFLAG=1	048540
	PRINT "	14455
	PRINT +, "FORCE PAPENT UNIT EFF SECT CI"	048550
	PRINT 1130. J. PARENT. APPAY (2) . UEFF. ARRAY (6) . ARRAY (5)	34457
1130	FORMAT(" ",I3,4%,2(A10,2%),2(F4.0,2%),A10)	148549
	GO TO 1080	34859
1140	PRINT 1150.APRAY(2).UEFF, ARRAY(4).ARRAY(5)	248633
1150	FURNAT (" ", 19x, A 10, 2x, 2 (F4, 0, 2x), A 10)	34861
	GO TO 1990	34862
1160	PRINT *. * *	04863
	CALL CLOSEY(LFIT)	04564
	GO TO 1140	34465
1170	CALL DISPLAY	14866
1180	PRINT "ANOTHER DISPLAY?"	24867
	CALL PEEDA (INX)	34868
	IF(INX.ED. "Y")GO TO 840	348690
	IF(INX.EQ."N")GO TO 200	34970
	PRINT Sag	14871
	60 10 1116	348723
<u> </u>		34873
1196	PRINT *, "DO YOU WANT TO SEE CODES?"	34874
	CALL PEECA (INX)	04575
	IF([NX.E9."Y")GO TO 1195	34576
	GO TO 2229	24977
	CONTINUE	348793
,,	00 2210 JKIN0=1,2	14879
	CALL OPENM (LFIT, 3LI-0,1LR)	C4850
	PRINT 2180, ASECT, ACI	34881
2186	FORMAT (" UNITS LOACED INTO SECTOR ".F6.0." FOR CI ".A10.//.	34892
	"FORCE PARENT UNIT NEW PARENT NEW UNIT")	24883
	GALL GETN(LFIT, ARRAY, 42RAY(1))	148940
	H=IFETCH (LFIT, 2LFP)	14885
	IF (M.EQ. 1008) GQ 70 2205	- 34896.
	J=ARRAY(3)	34657
	IF (ARPAY (4) .NE.ASECT.OF.ACI.ME.AFRAY(5).CRME.JKIND) GC TO 2190	14859
	IPI=IRRAY(1)	34899
	IR2=IRRAY(2)	14893
	GALL TRANS(IR1.IP1)	34891
	CALL TRANS(IR2,IR2)	14892
		14693
2200	PRINT 2200, J, ARRAY (1), ARRAY (2), IF1, TR2	04894
2204	FORMAT(1x,13,8x,A10,3x,A10,1x,A10,5x,A10)	34995
2006	GO TO 2190 CALL CLOSEY(LFIT)	1+196

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Section 5

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2210 CONFINUE 348985 2220 IF (IPEGM.EQ. "N")GO TO 1320 CALL OPENH(LFIT.3LI-0.1LR) 14499C IPUT =-1 349313 AH1="CI AH" CALL CKSTOR (AHL. IPUT) 249030 149141 149351 NU=6 DG 1200 I=1.5 14916: 34967: AH ([+3)=0. ICOUNT (I)=0 349386 1200 CONTINUE 1210 PRINT . TO YOU WISH TO SEE UNITS LOACED INTO SECTOR?" 049590 349150 CALL REEGA(INX)
IF (INX.EG. "Y".GR.INX.EQ. "N")GO TO 1220
PRINT 50C 04911: 349130 GO TO 1210 1220 IF(INX.EG. "N")GO TO 1240 349145 34915: 049163 POINT 1230, ASECT, ACT
1230 FORMAT(" UNITS LOACED INTO SECTOR ",F6.0," FCR CI ",A10,//, 349173 349193 - FOPCE UNIT 249190 1240 CALL GETN (LFIT, ARRAY, ARRAY(1))

Matretch (LFIT, 2LFF)

IF (N .EO. 100B) GO TO 1290 349235 149213 149220 349230 IF (A RRAY (4) . NE. ASECT. AND. ARRAY (4) . NE. -1. - ASECTIGO TO 1243 14924: IF (ARPAY (5) . NE. ACI) GO TO 1240
IF (ARRAY (4) . LT. 0.) GC TO 1240 149250 149260 149270 J=ARRAY(3) IEFF=ARPAY(3) 349293 ICIL=ARRAY(9) IPHJ=ARRAY(10) 14929[049370 IF (INX.EQ."N")GO TO 1250

PPINT 1250, J. ARRAY (1), ARRAY (2), IPPC, ICIL, IEFF

1250 FORMAT (" ", I3, 6X, A1J, 3X, A1J, 3X, I2, 3X, I2, 4X, I3, 4X)

1200 CO 1270 I=1.60 34931 14932 149330 IF (ARR AY (I +18) .EO.0) GO TO 1270 ELMT (I, J) = ELMT (I, J) + ARRAY (I+10) 149 350 1270 CONTINUE 349350 IF(IPRO.EQ.8) GO TO 1240 II=[PRO+4+(J-1) 949392 TCOUNT (II) = ICOUNT (II) +1 749413 IF(J.EQ.1.4ND.IPRO.EQ.4.4ND.ICIL.EQ.4)NNU(J)=NNU(J)+1
IF(J.EQ.2.2.4NG.IPRO.EQ.4.4ND.ICIL.EQ.4)NNU(J)=NNU(J)+3 24942: :4943; IF(IPAO.NE.2.OR.ARRAY(1).EQ.AVN.CR.J.NF.1)GO TO 1242 :4944

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F(ARPAY(71).EQ.QANQ.ARFAY(72).EQ.Q.).IGQ TO 1240	14945°
VN=TRRAY(1)	149470
U=NU+1	149640
0 TO 1240	349499
	149510
ALL CLOSEM (LFIT)	049510
FIRST=0	149520
F(NU .GZ .9) AH (P) = "PLUS"	149530
F(AH(4).NE.O.)CALL CKSTOF(AH1,IPUT)	349543
TEAT2 BULR" STH	149553 349560
151 1917 5 - 1	349573
ALL CKSTOR (A41. IPUT)	249583
0 1310 T=1.60	149593
M (I +10) =ELHT (I,J)	049600
ONT IN UE	349513
CALL CKSTOR(AH1, I PUT)	14952
F(J.EQ.2)GO TO 1320	
= 2 	349640
H1="REC_START"	
ONTINUE	04967
EGRADE + CF ARTY TUBES ACTIVE IN SECTOR	249680
0 1330 J=1.2	0.49690
0 1340 I=43,55	Ç4973
:LMF (I.J) = ELMT (I, J) 4.85	349713
iunt inue	149720
ONT INUE	049739
PRINT 4, "ARTY DEGRADED"	349743 848783
NO .	349750 349750

SUBROUTINE COMBINE COMMON/ONE/LFIT (35).AFRAY (90).4 19UF(1024).0(80.2).ACI. 049786 049795 ASCENE ASECT YSECT 049863 DIMENSION W(90) 149813 INPUT HOST & NEW "TENANT"

100 PRINT "," PARENT IO UF HOST = " 049820 C4953C CALL REECB (HPAR) 649840 UNIT ID = " 049553 CAL_ REFOR(MUNIT)

110 PRINT *," PARENT ID OF DISBANDING UNIT = "
CALL **ECTROPAR*)

UNIT TO = " 049563 349870 :49882 PRINT .. UNIT IC = " 549890 CALL REECH (OUNIT) 149900 CHECK IF HOST AND TENANT ARE DIFFERENT 349920 IF (HPAR.EQ.OPAR.ANO.HUNIT.EQ.CUNIT) I=1 849933 IFIT .EQ. 11 PRINT + . " DISHA POING UNIT IS SAIE AS HOST" 049943 IF (T.EQ. 1)60 TO 140 149950 CHECK IF HUST IS ON FORCE FILE 149960 349973 ARRAY (7) =90909 349980 ARRAY(1) =HP4R 149990 ARRAY (2) =HUNIT 353880 CALL OPENM (LFIT, 3LI-0,1LR) 350313 CALL GET (LFIT, ARRAY, A FRAY (1))
1F(ARRAY(7).EQ. 90909) 1=1 350333 IF(I.EQ.1)PRINT +, MOST NOT UN FORCE FILE"
IF(I.EQ.1)GO TO 140
CHECK IF TENANT IS ON FORCE FILE 150840 35005C 853360 35037: ARRAY(7) = 90 90 9 APRAY(1) = CPAP 05039: 050133 APPAY(2)=DUNIT CALL REWND(LFIT)
CALL GET (LFIT, ARPAY, ARR AY (1)) 853113 350120 TF(ARPAY(7).EQ.90909) =1

IF(ARPAY(7).EQ.90909) =1

IF(I.EQ.1)PRINT +." DISBANDING UNIT IS NOT ON FORCE FILE"

IF(I.EQ.1)GO TO 14C

STORE ASSETS OF TENANT IN WORKING ARRAY

CO 120 I=1.90

M(I) #ARPAY(I+10) 050130 350140 254150 150163 35017: 14319: 120 CONTINUE REMOVE TENANT FROM FORCE FILE CALL OLTE(LFIT.ARRAY(1)) 350233 153213 ACO TENANT ASSETS TO HOST ASSETS 050220 050230 APRAY(1)=HPAR ARRAY(2)=HUNIT 35024 CALL REWNO(LFIT)

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	•
CALL GET (LFIT.ARPAY.ARRAY(1))	156250
00 133 I=1.40	353273
ARRAY(I+10) = ARRAY(I+1() + H(I)	957290
130 CONFINUE CALL REPLC(LFIT.ARRAY.930.AFKAY(1))	050390 050300
CALL CLOSEN(LFIT)	050310
140 RETURN	253 320 059 330
ENO	
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. M-150	

SURROUTINE CKACI(ACID) COMMON/ONE/LFIT(35) . ARRAY (90) . MYBUF (1024) . C (83, 2) . ACI. 350360 LASCENE ASECT <u> 351</u>370 COMMON/THREE/IHIST(351,AH(961,IY9UF(1024) 350380 OTHENSION GCI(2)
IF(ACI.NF. "XXX". AND .ACI.NE. "ALL". ANC. ACI.KE. "INITIAL") 350 390 350400 *GO TO 106 G50416
PRINT *, "CI MMEMONICS ""XXX"" ""INITIAL" ""ALL" 4RE NOT ALLOHED. 050423 150 430 ACI= 0. 050440 GO TO 430 358453 100 N1=0 050460 N2=5 ACT0 =0 . 050470 050480 CALL CPENM(LFIT, 3LI-0,1LR)
DO 120 N=1,2 999490 75350c 353<u>512</u> CCIUNI =3 . 110 CALL GETN(LFIT, ARRAY, ARRAY(1))
M=IFETCH(LFIT, 2LFF)
IF M. EQ. 1008) GO TO 130 350523 050530 650540 IF(ARRAY(5).EQ.CCI(1).OR.ARRAY(5).EQ.C.OR.ARRAY(5).EQ.TINITIALT) J5055C *GG TO 110 IF(ARRAY(S).EO. "FORCE")GO TO 110 050560 CCI(N) =ARRAY(5) 120 CONTINUE 056590 130 CALL CLOSEM (LFIT) 353600 CALL CPENM (IHIST. 3LI-0. LLR) 95061G AH(1)="CI NAMES" 050623 350530 050643 AH(2)=1. 140 AH(6)=99999. CALL GET (IHIST.AH.AH(1).0.20) IF (AH(4).NE.99994.)GO TO 160 350550 350662 THIS GI NAMES REGGRE NOT FOUND -- ACC IT TO HISTORY FILE CO 150 1=3,90 356670 254680 350690 351700 AH(I)=3. 150 CONTINUE CALL PUT (IHIST.AH, 963,4+(1)) 350713 J50723 GO TO 180 C FIND FIRST ZERO WOPD ON CI NAMES RECORD 160 NO=0 050730 353743 353753 15076C DO 170 I=4,90 IF (BH(I) .NE. 8 .) GO TO 179 356770 NO=E 350780 GO TO 150 050790 170 CONTINUE 180 IF(NO.EQ.4.ANO.AM(2).EQ.1)GO TO 460 350e3c 25081 IF (A H(2) . EQ . 1 .) AC [Q = A H(4)

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IF (MG.EQ.&)GG TO 210 G50A			
IF (MG.EQ.&)GG TO 210 G50A		TE(CCT(1).Eq. 0.160 TO 290	350830
DO 281 184.98			050440
IF(AH(I).ME.CCI(1))GC TO 190		· ·	450850
NIST SSS.			959960
### WROL=AM(2)			050970
GO TO 200 GS02 GS02 GS03 GS			05988G
190 IF(AH(I).ME.GCI(2).CP.GCI(2).EQ.Q.)GO TO 290 N2=I N2=I N02=AH(2) 201 CONTINUE 210 IF(N1.EQ.0)GO TO 220 IF(ECI(2).EQ.1.EQ.TD.29Q IF(M2.ED0)GO TO 227 IF(M2.ED0)GO TO 227 IF(M2.ED0)GO TO 227 IF(M2.ED0)GO TO 227 GO TO 39C 220 IF(M1.MR.0)GO TO 230 AH(2)=AH(2)+1. GO TO 19C 230 IF(GCI(2).EQ.J.)GO TO 250 PPINT 240,CGI PPINT 240,CGI 250 PRINT 260,CGI(1) 250 PRINT 250,CCI(1) 250 PRINT 3-PLEASE OMEORY THESE FI'S IN MOT RECORDED ON MISTIRYFILE.") 251 PRINT 3-PLEASE OMEORY THE CORRECT FILES ARE ATTACHEC." 251 PRINT 3-PROGRAM STOPPED" CALL SHOWCI PRINT 3-PROGRAM STOPPED" 250 CONSTINUE PRINT 3-PROGRAM STOPPED" 251 PRINT 3-PROGRAM STOPPED" 251 PRINT 3-PROGRAM STOPPED" 252 CONSTINUE PRINT 3-PROGRAM STOPPED" 253 IF(M1.GE.9Q)GO TO 330 351 PRINT 3-PROGRAM STOPPED" 351 PRINT 3-PROGRAM STOPPED STORE ST			C\$0490
M2E M2Q=ah(2) S519 S5	190	IF (AH(I) - AE.GCT(2) - CP.GGT(2) - EQ. Q.) GO TO 210	050900
##02 = ##1(2) 200 COM INUE 210 IF (M1.EQ.01GO TO 220	- /-		359910
200 COM INUE 210 IF (M 1.EQ. O)GO TO 220 1F (ECCI(2).EQ. C.1GO TO 220 1F (M 2.20.0)GO TO 220 1F (M RC).EQ. MRO2)GO TO 410 25 (9			251926
210 IFM1.EQ.0JGO TO 220	200		050930
IFICE			050940
IF (NZ.E7.0)GO TO ZZZ IF (MRCL_EQ_MRC)GO TO ZZZ IF (MRCL_EQ_MRC)GO TO ALJ GO TO 39C 220 IF (NG_NE_0)GO TO ZZQ AH(Z)=AH(Z)>1. GO TO 19C ZZO IF (NG_NE_0)GO TO ZZQ AH(Z)=AH(Z)>1. GO TO 19C ZZO IF (GCI(Z).EQ.J.)GO TO ZZO PPINT Z&O,CCI PPINT Z&O,CCI "AT LEAST ONE OF THESE FI'S IS NO! FECOFDED ON MISTRYFILE.") JSLC GO TO ZZC ZZO FORMAT(" FORCEFILE IS AT ENC OF CI ".ALD/" ANC ".ALJ/" DSLC ""IMIS CI NAME IS NO! RECORCED ON MISTRYFILE.") JSLC GO FORMAT (" FORCEFILE IS AT ENC OF CI ".ALD/" DSLC ""IMIS CI NAME IS NO! RECORCED ON MISTORYFILE.") JSLC GALL SHOWCI PRINT "."PROGRAM STOPPED" JSLL GALL SHOWCI PRINT "."PROGRAM STOPPED" JSLL PRINT "."FORCEFILE HAS NO CI NAMES ON UNIT PECORCS" JSLL PRINT "."FORCEFILE HAS NO CI NAMES ON UNIT PECORCS" JSLL PRINT "."HISTORYFILE HAS AT LEAST ONE CI FECCROED ON IT" JSLL PRINT "."IS SMOULD BE A BLANK FILE." JSLL ZZQ XNAS. JSLL IF (NL.GE.90)GO TO 33C JSLL ZZQ XNAS. JSLL IF (NL.GE.90)GO TO ALD JSLL			053950
IF (MRC1_EQ_MRC2) GQ TQ 413 GO TO 39C 20 IF (MR.ME_D) GO TO 23B AM(2) = AM(2) = AM(2) + 1. GO TO 14C 230 IF (GC1(2) = EQ.J.) GO TO 25C			050950
GO TO 39C 220 IF(NQ.ME.Q)GO TO 23D AMERICAN (2) + 1. GO TO 160 250 IF(GCI(2).EQ.J.)GO TO 250 PPINT 240,CGI 260 FORMAT(" CI NAMES FOUND ON FORCEFILE AFE ".A13," ANC ".A13/ 0510 - " AT LEAST DIE OF THESE FI'S IS NOT RECORDED ON MISTARVFILE.") 3516 GO FO 27C 250 PRINT 260,CCI(1) 260 FORMAT(" FORCEFILE IS AT ENC OF CI ".A10/ 0511 270 PRINT ". "PLEASE CHECK THAY CORRECT FILES ARE ATTACHED." 3511 CALL SHOWDI CALL SHOWDI PRINT ". "PROGRAM STOPPED" 0511 CALL SHOWDI CALL SHOWDI PRINT ". "PROGRAM STOPPED" 0511 CALL SHOWDI PRINT ". "PROGRAM STOPPED" 0511 CALL SHOWDI STOP 290 CONTINUE PRINT ". "FORCEFILE HAS NO CI NAMES ON UNIT PECOROS" 3511 GG TO 270 291 XN=8. IF (M1.GE.90)GO TO 330 1512 1514 1512 IF (M1.GE.90)GO TO 340 3512 IF (M1.GE.90.MO)GO TO 340 3512 IF (M1.GE.90			251972
220 IF(MQ.NE.Q)GO TO 239 AH(2)=AH(2)-1. GO TO 140 251			050980
AH(2)=AH(2)+1. GO TO 16C 230 IF (GCI(2).E0.J.)GO TO 250 PPINT 240,CCI 240 FORMAT(" CI NAMES FOUND ON FORCEFILE AFE ",A19," ANC ",A1)/ 0510 — AT LEAST ONE OF THESE PI'S IS NOT SECOPIDED ON MISTRYFILE.") 3510 GO TO 27C 250 PRINT 260,CCI(1) 260 FORMAT(" FORCEFILE IS AI ENC OF CI ",A10/ 0511) — "IMIS CI NAME IS NOT RECORCED ON HISTOFYFILE.") 2513 270 PRINT ","PLEASE CMECK "MAY GGRRECT FILES ARE ATTACHED." 3511 CALL SHOWCI 3511 CALL SHOWCI 3511 PRINT ","PROGRAM STOPPED" 0511 CALL SHOWLI 3512 PRINT ","FORCEFILE MAS NO CI NAMES ON UNIT PECORCS" 3511 PRINT ","FORCEFILE MAS NO CI NAMES ON UNIT PECORCS" 3511 PRINT ","FORCEFILE MAS NO CI NAMES ON UNIT PECORCS" 3511 PRINT ","IT SHOULD BE A BLANK FILE." 3512 GG TO 270 200 XN=8. 3512 IF (N1.GE.90)GO TO 330 3512 IF (N1.GE.90)GO TO 330 3512 IF (N1.GE.90)GO TO 330 3512 IF (AM(2).NE.HROL)GO TO 340 3512	220		350990
GO TO 140 230 IF(GCI(2).EQ.J.)GO TO 250 PRINT 24Q.CCI 240 FORMAT(" CI NAMES FOUND ON FORCEFILE AFE ".A13." ANC ".A1]/ 0510 - "AI LEAST DIE OF THESE FI'S IS NOT RECORDED ON MISTRYFILE.") 3510 GO TO 270 250 PRINT 26Q.CCI(1) 268 FORMAT(" FORCEFILE IS A1 ENC OF CI ".A1]/ 0513 270 PRINT 25Q.CCI(1) 270 PRINT ", "PLEASE CHECK "HAY GGRRECT FILES ARE ATTACHED." 3511 CALL SHOHCI PRINT ", "PROGRAM STOPPED" 0511 CALL SHOHCI PRINT ", "FORCEFILE HAS NO CI NAMES ON UNIT RECORDS" 3511 PRINT ", "FORCEFILE HAS NO CI NAMES ON UNIT RECORDS" 3511 PRINT ", "FORCEFILE HAS AT LEAST ONE CI FECCROED ON IT" 3511 PRINT ", "IT SHOULD BE A BLANK FILE." 0512 AGG TO 270 290 XMMS. 1512 IF(N1.GE.90)GO TO 330 3512 IF(N1.GE.90)GO TO 340 3512 IF(N1.GE.90)GO TO 350		- 	151730
250 IF(GCI(2).EQ.J.)GO TO 250 PPINT Z&Q.GCI 260 FORMAT(" CI NAMES FOUND ON FORCEFILE AFE ".A13," ANC ".A11/ 0510 "AT LEAST DIE OF THESE FI'S IS NOT RECORDED ON MISTARYFILE.") 3510 260 FORMAT(" FORCEFILE IS A1 ENC OF CI ".A10/ 0510 "IMIS CI NAME IS NOT RECORCED ON HISTOFYFILE.") 0511 270 PRINT ", "PLEASE CHECK "MAY GGRREC" FILES ARE ATTACHED." 3511 CALL SHOWCI 3511 CALL SHOWCI 3511 CALL SHOWCI 3511 PRINT ", "PROGRAM STOPPEO" 0511 PRINT ", "PROCEFILE MAS NO CI NAMES ON UNIT RECORCS" 3511 PRINT ", "FORCEFILE MAS NO CI NAMES ON UNIT RECORCS" 3511 PRINT ", "HISTORYFILE HAS AT LEAST ONE CI FECCROED ON IT" 1511 GG TO 270 290 CONTINUE 3511 PRINT ", "HISTORYFILE HAS AT LEAST ONE CI FECCROED ON IT" 1511 GG TO 270 291 XMBE. 3512 IF (N1.GE.90)GO TO 330 3512 IF (N1.GE.90)GO TO 330 3512 IF (M1.CE.NAM(N2).OR.AGI.EQ.CCI(1))GO TO 470 3512 IF (N2.EQ.NO)GO TO 460 5512 PRINT 310,CCI(1),AM(N2).OR.AGI.EQ.CCI(1))GO TO 470 3512 310 FORMAT(" FORCEFILE IS AT END OF CI ".A10/ 3512 " NEXT CI TO GAME MUST 3E ".A10) 4512			351918
PPINT 240,CCI 200 FORMAT (" CI NAMES FOUND ON FORCEFFILE AFE ",A13," ANC ",A13/ 0510 * " AT LEAST ONE OF THESE PI'S IS NOT RECORDED ON MISTARVFILE.") 3510 250 PRINT 260,CCI(1) 260 FORMAT (" FORCEFFILE IS AT ENC OF CI ",A10/ 0513 * " IMIS CI NAME IS NOT RECORCED ON MISTORVFILE.") 3511 270 PRINT ", "PLEASE CMECK "MAY CORRECT FILES ARE ATTACHED." 3511 CALL SHOWCI 3511 CALL SHOWCI 3511 PRINT ", "PROGRAM STOPPED" 3511 PRINT ", "FORCEFILE MAS NO CI NAMES ON UNIT RECORCS" 3511 PRINT ", "FORCEFILE HAS NO CI NAMES ON UNIT RECORCS" 3511 PRINT ", "FORCEFILE HAS AT LEAST ONE CI FECCROED ON IT" 3511 GG TO 270 290 CONTINUE 3511 PRINT ", "IT SHOULD BE A BLANK FILE." 3512 290 XMBE. 3512 291 XMBE. 3512 15(AH(2).NE.WED1)GO TO 340 3512 361 F(AH(2).NE.WED1)GO TO 340 3512 361 F(AH(2).NE.WED1)GO TO 340 3512 361 F(ACI.EO.AM(NZ).OR.ACI.EQ.CCI(1))GO "O 470 3512 361 F(NZ.EQ.NO)GO TO 460 3512 361 FORMAT (" FORCEFILE IS AT END OF CI ",A10/ 3512 4 " NEXT CI "O GAME MUST BE ",A10) 4512	230		051323
240 FORMAT(" CI NAMES FOUND ON FORCEFILE ARE ",A10," ANC ",A11/ 0510 - " AT LEAST DIE OF THESE CI'S IS NOT RECORDED ON HISTORYFILE.") 3510 250 PRINT 260,CCI(1) 3510 260 FORMAT(" FORCEFILE IS AT ENC OF CI ",A10/ 0512 - " IMIS CI NAME IS NOT RECORCED ON HISTORYFILE.") 5513 270 PRINT -, "PLEASE CHECK "MAY GORREGT FILES ARE ATTACHED." 3511 CALL SHOWCI 3511 CALL SHOWCI 3511 CALL SHOWCI 3511 290 CONTINUE 971NT -, "FORCEFILE MAS NO CI NAMES ON UNIT RECORDS" 3511 PRINT -, "HISTORYFILE HAS AT LEAST ONE CI FECGROED ON IT" 3511 PRINT -, "HISTORYFILE HAS AT LEAST ONE CI FECGROED ON IT" 3511 GG 10 270 3512 290 XN=8. 5512 IF (N1.GE.90)GO TO 330 3512 IF (M1.GE.90)GO TO 340 3512 IF (M1.CE.90)GO TO 340 3512 IF (M1.CE.90.MO)GO TO 460 5512 PRINT 310,CCI(1).AM(N2).OR.ACI.EQ.CCI(1).GG "O 470 3512 310 FORMAT(" FORCEFILE IS AT END OF CI ",A10/ 3512 311 FORMAT(" FORCEFILE IS AT END OF CI ",A10/ 3512 4 " NEXT CI TO GAME MUST 3E ",A10) 3512	•••		051030
# AT LEAST ONE OF THESE CI'S IS NOT RECORDED ON MISTRYFILE.") 3510 GO TO 270 250 PRINT 260,CCI(1) 266 FORMAT(" FORCEFILE IS AT ENC OF CI ".A10/ 0512 * "IMIS CI NAME IS NOT RECORCED ON MISTOFYFILE.") 3510 270 PRINT ", "PLEASE CHECK "MAY CORRECT FILES ARE ATTACHED." 3511 CALL SHOWCI PRINT ", "PROGRAM STOPPED" 3511 CALL SHOWLI 3511 250 CONTINUE PRINT ", "FORCEFILE MAS NO CI NAMES ON UNIT RECORDS" 3511 PRINT ", "FORCEFILE MAS NO CI NAMES ON UNIT RECORDS" 3511 GO 70 270 250 CONTINUE PRINT ", "HISTCRYFILE MAS AT LEAST ONE CI FECCROEJ ON IT" 3511 GO 70 270 250 XN=8. IF (M1.GE.90)GO TO 330 N2=M1+1 IF (AMC).NE.MR01)GO TO 340 3512 360 IF (ACC.EO.AM(N2).OR.ACI.EQ.CCI(1))GO "O 470 1512 1F (AMC).NE.MR01)GO TO 340 3512 1F (M2.EQ.MO)GO TO 460 PRINT 310,GCI(1).AM(N2) 3512 361 FORMAT(" FORCEFILE IS AT END OF CI ".A10/ 4" NEXT CI TO GAME MUST 3E ".A10) 3512 4" NEXT CI TO GAME MUST 3E ".A10)	240	FORMAT (" CI NAMES FOUND ON FORCEFILE ARE ",A17." ANC ",417/	051040
GO FO 270 250 PRINT 260.CCI(1) 260 FORMAT (" FORCEFILE IS AT ENC OF CI ".A10/ " " FMIS CI NAME IS MOT RECORCED ON FISTOPYFILE.") 270 PRINT ", "PLEASE CHECK "MAY GORRECT FILES ARE ATTACHED." CALL SHOWCI PRINT ", "PROGRAM STOPPED" CALL SHOWLI STOP 290 CONTINUE PRINT ", "FORCEFILE MAS NO CI NAMES ON UNIT RECORCS" PRINT ", "FORCEFILE MAS NO CI NAMES ON UNIT RECORCS" PRINT ", "HISTORYFILE HAS AT LEAST ONE CI FECORDED ON IT" PRINT ", "IT SHOULD BE A BLANK FILE." GG FO 270 296 XN=8. IF (N1.GE.90)GO TO 330 NZ=M1+1 IF (AH(2).NE.MED1)GO TO 340 3512 361 IF (ACI.EO.AH(N2).OR.ACI.EQ.CCI(1))GO "O 470 3513 360 IF (ACI.EO.AH(N2).OR.ACI.EQ.CCI(1))GO "O 470 3514 361 FORMAT(" FORCEFILE IS AT END OF CI ",A10/ A " NEXT CI TO GAME MUST BE ",A10) 4 " NEXT CI TO GAME MUST BE ",A10)	4	" AT LEAST ONE OF THESE PI'S IS NOT RECORDED ON MISTARYFILE.")	351650
260 FORMAT (" FORCEFILE IS AT ENC OF CI ".A10/ " " FMIS CI NAME IS NOT RECORCED ON FISTOFYFILE.") 270 FRINT ", "PLEASE CHECK "MAY GGREEC" FILES ARE ATTACHED." CALL GLOSEM (IMIST) CALL SHOWCI PRINT ", "PROGRAM STOPPED" CALL SHOWIT STOP 290 CONFINUE PRINT ", "FORCEFILE MAS NO CI NAMES ON UNIT PECORCS" J511 PRINT ", "FORCEFILE MAS NO CI NAMES ON UNIT PECORCS" J512 GG FO 270 290 XN=8. IF (N1.GE.90)GO TO 330 N2=M1+1 IF (AMIC).NE.MRO1)GO TO 340 391 IF (ACI.EO.AM(N2).OR.ACI.EQ.CCI(1))GO "O 479 IF (N2.EQ.NO)GO TO 460 PRINT 310.GCI(1).AM(N2) G512 4 " NEXT CI TO GAME WUST 3E ".A10) G512 4 " NEXT CI TO GAME WUST 3E ".A10)			351060
266 FORMAT(" FORCEFILE IS AT ENC OF GI ".A10/ "" [HIS GI NAME IS NOT RECORCED ON FISTOFYFTES."] 270 FRINT ", "PLEASE CHECK "MAY GGRECT FILES ARE ATTACHED." CALL GLOSEM (IMIST) CALL SHOWGI PRINT ", "PROGRAM STOPPED" CALL SNCWIT STOP 290 CONTINUE PRINT ", "FORCEFILE MAS NO GI NAMES ON UNIT PECORCS" PRINT ", "HISTORYFILE HAS AT LEAST ONE CI FECGROED ON IT" PRINT ", "IT SHOULD BE A BLANK FILE." 290 XN=8. IF (N1.GE.90)GO TO 330 N2=N1: IF (N1.GE.90)GO TO 340 3512 15 (ACI.EO.AM(N2).OR.ACI.EG.CCI(1))GO "O 470 15 (12 15 (12 15 (12).CO.AM(N2).OR.ACI.EG.CCI(1))GO "O 470 3512 15 (12).CO.AM(N2).OR.ACI.EG.CCI(1))GO "O 470 3512 3512 3514 3515 3516 3516 3516 3517 3517 3517 3517 3518 3518 3518 3519 3519 3510 3	258	PRINT 260.GCI(1)	05137C
- " FMIS CI NAME IS MOT RECORCED ON FISTOFYFILE.") 270 PRINT - "PLEASE CHECK THAY GGRRECT FILES ARE ATTACHED." CALL CLOSEM (IMIST) CALL SHOWCI PRINT - "PROGRAM STOPPED" CALL SHOWIT STOP 290 CONTINUE PRINT - "FORCEFILE MAS NO CI NAMES ON UNIT PECORCS" PRINT - "HISTORYFILE HAS AT LEAST ONE CI FECGROED ON IT" PRINT - "HISTORYFILE HAS AT LEAST CORE CI FECGROED ON IT" GG FO 270 290 XN=8. IF (N1.GE.90)GO TO 330 N2=M1+1 IF (AMIC).NE.MRO1)GO TO 340 3512 JF (AMIC).NE.MRO1)GO TO 340 JF (200 XN=1) IF (AMIC).NE.MRO1)GO TO 340 JF (201 XN=1) JF	260	FORMATI" FORCEFILE IS AT ENC OF CI ". A10/	051 782
270 FRINT ", "PLEASE CHECK THAY GORREC" FILES ARE ATTACHED." CALL SHOWCI PRINT ", "PROGRAM STOPPED" CALL SHOWIT CALL SHOWIT STOP 290 CONTINUE PRINT ", "FORCEFILE MAS NO CI NAMES ON UNIT RECORDS" PRINT ", "FORCEFILE HAS AT LEAST ONE CI FECORDEJ ON IT" PRINT ", "IT SHOULD BE A BLANK FILE." GG TO 270 290 XN=8. IF (N1-GE-90)GO TO 330 NZ=M1+1 IF (AH(2) .NE.MED1)GO TO 340 391 IF (ACI.EO.AH(N2) .OR.ACI.EQ.CCI(1) GG "O 479 1512 310 IF (ACI.EO.AH(N2) .OR.ACI.EQ.CCI(1) GG "O 479 311 FORMAT(" FORCEFILE IS AT END OF CI ", A10/ 4 " NEXT CI TO GAME MUST BE ", A10) 3512 4 " NEXT CI TO GAME MUST BE ", A10)	4	FIGURE CI NAME IS NOT RECORCED ON FISTOFYFILE.")	351390
CALL SHOWCI	270	PRINT ", "PLEASE CHECK THAT CORRECT FILES ARE 4TTACHED."	351103
PRINT * "PROGRAM STOPPED" CALL SHOWIT \$70P 290 CONTINUE PRINT * "FORCEFILE MAS NO CI NAMES ON UNIT PECORDS" PRINT * "HISTGRYFILE HAS AF LEAST ONE CI FECGROED ON IT" PRINT * "HISTGRYFILE HAS AF LEAST ONE CI FECGROED ON IT" PRINT * "IT SHOULD BE A BLANK FILE." GG FO 270 290 XN=8. IF (N1.GE.90)GO TO 330 N2=11 IF (N1.GE.90)GO TO 330 3512 361 IF (ACI.EO.AH (N2).OR.ACI.EQ.CCI(1))GO "O 470 1512 15(N2.EQ.NO)GO TO 460 PRINT 310,CCI(1).AH (N2) 310 FORMAT(" FORCEFILE IS AT END OF CI ",A10/ 4 " NEXT CI TO GAME MUST BE ",A10) 4 " NEXT CI TO GAME MUST BE ",A10)			351110
PRINT * "PROGRAM STOPPED" CALL SHCHIT STOP 290 CONTINUE PRINT *, "FORCEFILE HAS NO CI NAMES ON UNIT PECOROS" PRINT *, "FORCEFILE HAS AT LEAST ONE CI FECGROEJ ON IT" PRINT *, "HISTORYFILE HAS AT LEAST ONE CI FECGROEJ ON IT" GG FO 270 290 XN=8. IF (N1.GE.90)GO TO 330 N2m1+1 IF (AHC).NE.MRD1)GO TO 340 3912 300 IF (ACI.EO.AH(N2).OR.ACI.EQ.CCI(1))GO "O 470 IF (N2.EQ.MO)GO TO 460 PRINT 310.GCI(1).AH(N2) 310 FORMAT(" FORCEFILE IS AT END OF CI ",A10/ 4 " NEXT CI TO GAME MUST 3E ",A10) 0512		CALL SHOWCI	J51120
CALL SHOWIT \$70P 290 CONFINUE PRINT *, "FORCEFILE MAS NO CI NAMES ON UNIT PECOROS" PRINT *, "HISTGRYFILE HAS AF LEAST ONE CI FECGROED ON IT" PRINT *, "HISTGRYFILE HAS AF LEAST ONE CI FECGROED ON IT" PRINT *, "IT SHOULD BE A BLANK FILE." GG FO 270 290 XN=8. IF (N1.GE.90)GO TO 330 N2=11 IF (N1.GE.90)GO TO 330 3512 361 IF (N2.EQ.NO)GO TO 340 3712 3712 3713 3714 3715 3715 3716 3717 3717 3717 3717 3717 3717 3717 3717 3717 3717 3717 3717 3717 3717 3717 3717 3717 3717			051130
\$70P 290 CONTINUE			351140
290 CONTINUE PRINT *, "FORCEFILE MAS NO CI NAMES ON UNIT PECORCS" PRINT *, "HISTGRYFILE HAS AT LEAST ONE CI FECGROED ON IT" PRINT *, "IT SHOULD BE A BLANK FILE." GC FO 270 290 XN=8. IF (N1.GE.90)GO TO 330 N2mx1+1 IF (AH(2).NE.MRO1)GO TO 340 300 IF (ACI.EO.AM(N2).OR.ACI.EQ.CCI(1)1GO "O 470 IF (N2.EQ.NO)GO TO 460 PRINT 310,CCI(1).AM(N2) 310 FORMAT(" FORCEFILE IS AT END OF CI ",A10/ 4 " NEXT CI TO GAME MUST BE ",A10) 2512			351150
PRINT +, "HISTGRYFILE HAS AT LEAST ONE CI FECORDED ON :T" J511 PRINT P, "IT SHOULD BE A BLANK FILE." J511 GC FO 270 U512 290 XN=8. J512 IF (N1.GE.90)GO TO 330 J512 N2=N1+1 J512 IF (AH(2).NE.WRO1)GO TO 340 J512 300 IF (ACI.EO.AH(N2).OR.ACI.EO.CCI(1))GO "O 470 J512 IF (N2.EO.NO)GO TO 460 J512 PRINT 310, CCI(1).AH(N2) J512 310 FORMAT(" FORCEFILE IS AT END OF CI ",A10/ J512 4 " NEXT CI TO GAME MUST BE ",A10) U512	230	CONFINUE	351160
PRINT +, "HISTGRYFILE HAS AT LEAST ONE CI FECORDED ON :T" J511 PRINT P, "IT SHOULD BE A BLANK FILE." J511 GC FO 270 U512 290 XN=8. J512 IF (N1.GE.90)GO TO 330 J512 N2=N1+1 J512 IF (AH(2).NE.WRO1)GO TO 340 J512 300 IF (ACI.EO.AH(N2).OR.ACI.EO.CCI(1))GO "O 470 J512 IF (N2.EO.NO)GO TO 460 J512 PRINT 310, CCI(1).AH(N2) J512 310 FORMAT(" FORCEFILE IS AT END OF CI ",A10/ J512 4 " NEXT CI TO GAME MUST BE ",A10) U512		PRINT ", "FORCEFILE HAS NO CI NAMES ON UNIT PECOROS"	351170
GC FO 270 290 XN=8. IF (N1.GE.90)GO TO 330 N2=M1+1 IF (AH(2).NE.MRO1)GO TO 340 3512 1914 A(2).NE.MRO1)GO TO 340 391 IF (ACI.EO.AM(N2).OR.ACI.EQ.CCI(1))GO "O 470 1512 IF (N2.EQ.N0)GO TO 460 PRINT 310,GCI(1).4M(N2) 310 FORMAT(" FORCEFILE IS AT END OF CI ".A10/ 4 " NEXT CI TO GAME MUST 3E ".A10) 0512		PRINT *. "HISTCRYFILE HAS AT LEAST ONE CI FECCROED ON IT"	351140
GC FO 270 290 XN=8.			05119:
IF (N1.GE.90)GO TO 330 N2=N1+1 IF (AH(2).NE.MRD1)GO TO 340 300 IF (AGI.EO.AM(N2).OR.AGI.EO.GCI(1))GO TO 470 IF (N2.EO.NO)GO TO 460 PRINT 310,GGI(1).AM(N2) 310 FORMAT(** FORCEFILE IS AT END OF CI **,A10/ ** NEXT CI TO GAME MUST 3E **,A10) J512			351200
N2=N1+1 151?	298	XN=E .	051213
N2=N1+1 151?		IF(N1.GE.90)GO TO 330	351223
300 IF(ACI.EO.AM(N2).OR.ACI.EQ.CCI(1))GG 70 479 3512 IF(N2.EQ.MQ)GO 70 460 5512 PRINT 310,GGI(1).AM(N2) G512 310 FORMAT(" FORCEFILE IS AT ENG OF CI ".ALQ/ 3512 4 " NEXT CI 70 GAME MUST BE ".ALQ) 0512			251230
IF(N2.EQ.NQ)GO TO 460		IF(AH(2).NE.HRD1)GO TO 340	351260
PRINT 310,GGI(1),AM(N2) 310 FORMAT(" FORCEFILE IS AT END OF CI ",A10/ J512 4 " NEXT CI TO GAME MUST BE ",A10) 0512	300	IF(ACI.EO.AH(N2).OR.ACI.EQ.CCI(1))GQ TO 479	351250
310 FORMAT (" FORCEFILE IS AT END OF C1 ",A10/ 3512 4 " NEXT C1 TO GAME MUST BE ",A10) 0512		IF(N2.EQ.NQ)GO TO 460	351260
4 " NEXT CI TO GAME MUST BE ", 410) 0512			051273
4 " NEXT CI TO GAME MUST BE ",A10) 0512			351290
46719 004 41.4101			05129:
ANTHE 250* WM (MS)		PRINT 32G, AH(N2)	151300

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320 FORMAT (" CI MNEMONIC HAS BEEN SET TO ".410) ACI= AH(N2) 151 12: 151330 351362 GQ *Q 475 330 N2=6 IF (AH(2) .EQ. MRG1+1.160 TO 300 151350 351 360 XN=1 . 151370 151390 AHEZJ=WRC1+YN 350 AH(6)=99999. CALL GET (THIST, AH, AH(1), 0,20) 351 39C IF (A + (4) . E7 . 0 .) NO=4 351420 IF 14 H(4) .NE . 99999. 160 TO 351410 IF (AH(2) .EQ.HR01) GO TO 370 151420 051430 CO 360 I=3.90 351440 .0=(2)+4 360 CONTINUE 051450 CALL PUT (INIST, AH, 907, AH (1)) 051460 251470 NJEL GO TO 300 1514AC 370 IF(4H(1).EQ."CI NAMES") GO TO 380 AH(1)="CI NAMES" 351490 351590 251510 351520 351530 GO TO 350
390 PEINT +, "HISTORYFILE RECOPD OF CI NAMES CANNOT BE FOUNC" GO TO 278 751540 398 IF (MRD1.GT.MRD2)G0 TO 438 351550 351560 MLAST=2 IF(N1.EQ.9J.ANO.NZ.EQ.4)GO TO 420 251570 60 FO 440 400 NLAST=1 051580 251590 051600 051610 IF (NZ.EQ.98.AND.N1.EQ.4)GC TO 428 GO TO 44G 410 NCHK=1A35 (N2-N1) IF (NCHK-NE-1) GO TO 440 251625 151530 15164: NLAST=2 IF(N2.LT.N1)NLAST=1 420 IF(GCI(NLAST) .EQ.ACI)GO °C 470 351650 PRINT 430,CCI(NLAST) 351660 430 FORMAT (" FORCEFILE SHOWS YOU ARE CURRENTLY GAMING CI ".ALI/ 051670 051680 ACI= CCI (NLAST)
GO TO 470
440 PRINT 450, CCI
450 FORMAT(" CI NAMES FOUND ON FORCEFILE ARE ".A10." AND ".A13/
- " THESE ARE NOT SUBSEQUENT CI'S ACCORDING TO MISTORYFILE.")
GO TO 270 151690 35173: 351713 251720 351730 151743 460 AH(NO)=4CI 15175: CALL - EPLC(IMIST.AM. 90G.AM(1))
IF(NG.NE. 4.OR.AM(2).NE.1.)GO - 3 470 351763 CALL NEWHIS 15175:

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ACTO #ACI 478 CALL GLOSEN(IHIST)	
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•	SUR OUTINE NEWHIS	351 14
	OMMON IA, IC, IP. IENGAG, ITERRN. IVIS, IMCUNT. MINES, CFPR, FSFPF, FPR.	35189
	ATT ME I FIRST I PUN AGRO . F MASS IMAXKV.	35146
	SF(2).FSSF(2).PACK(2).	15197
	EL4T(80.2).ALOSS(64.66), SHOTS(55.2), CKILL(53.2), SHOTSV(55.2)	35186
	COMMON/REED/JOAY: .YVY(4) .ICARD(2C).IAPPGR	05189
	COMON/ONE/LFIT(35), A REAV 198), MYRUF(1024), C(80, 2), ACI, ASCENE. ASECT	
	OMION/THPEE/IHIST(35), AH(90), IYSUF(1024)	35191
	00 100 J=1,2	35192
	0 100 1=1.30	35193
	ELMT (I.J)=0.	15194
	ONTINUE	05199
•••	PINT 260, ACI	35196
	PRINT *. "DO YOU WANT TO ASSIGN UNITS TO SECTORS?"	35197
(CALL REECA (IVN)	25195
	[F(I YN.EQ. "Y")GQ TQ 122	25199
j	[F(IYN.EO."N")GO TO 130	0522
	PRINT 202	35231
	50 TO 110	05202
	PRINT *, "INSTRUCTIONS FOR ASSIGNING SECTORS? "	15203
. (CALL REECA (INX)	25224
	IF(INX.EQ."N")GO TO 170	15205
	PRINT . "EACH PARENT UNIT NAME HILL BE EISPLAYED ON THE SCREEN AND	
	YOU HUST HAKE AN INPUT."	15207
	PRINT 4. MENTER THE LETTER A IF ALL UNITS IN THE PARENT ARE IN THE	
	A SECTOR."	15209
	PRINT . TYOU WILL THEN ENTER THE SECTOR . FOR THAT PAPENT."	15213
	PRINT . "ANY ENTRY OTHER THAN THE LETTER A INDICATES THAT EACH UNI	
	T IN THAT MARENT WILL BE ASSIGNED A SECTOR 4."	0521
	PRINT . "EACH UNIT NAME WILL THEN BE CISPLAYED AND YOU MUST ENTER	
	TS SECTOR	75214
	PPINT *. "UNITS INITIALLY UNCOMMITTED SHOULD BE ASSIGNED TO SECTOR	
	(ZERO)."	25216
	AKEEP=O.	35217
	I ACF ≈ 0 .	2521
	CALL OPENM(LFIT.3LI-0.1LR)	1521
	CALL GETN(LFIT,APFAY,ARFAY(1))	:522
	HaTFETCH (LFIT. 2LF F)	1522
	RF(4.EQ.1008) GO TO 210	1522
	(F(IYN.EQ. "N")GO TO 150	1522
	IF(ARRAY(1).EQ.AKEEP.ANG.IACT.EG."A")GG TO 183	1522
	IFIARRAY (1) .EQ.AKEEP) GO TO 170	35229
	AKET P= ARFAY(1)	35226
	POLNT 290, ARRAY(1)	35221
1	CALL REECA(IACT)	35229
	IF(IACT.NE."A")GO TO 177	35229
	PRINT 4. "SECTOR # - "	3523
	CALL RESCA	152 3

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SECT=XINX(1)	152320
IF(SECT.GE. C.)GO TC 180	352339
PRINT 30C	052340
IF(IACT.EQ."ALL")GO TO 153	352353
IF(IACT.EQ."A")GQ TO 150	152363
70 PRINT 310.4 RRAY(2)	252373
GO TO 160	252 340
80 ARREY(4) =SECT	152399
90 ARRAY(5)=ACI	352403
CALL REPLC(LFIT, ARRAY, 900, ARRAY(1))	05241
NEWS (15242
AH(1)=4CI	25243
AH(Z) PARRAY(1)	15244
AH(S)=ARPAY(2)	25245
An(b) = 99 999.	0 52 460
CALL GET (THIST, AH, AH(1))	35247
IF (4H(4) .NE. 99999.) NEH=1	G 52 4 6
AH(b)=APFAY(b)	85249
AH(5) = ARFAY(3)	15250
J=42 PAY(3)	35251.
00 200 II=6,90	35252
AH(II) =AFPAY(II)	05253
IF((J.NE.1.ANC.J.NE.2).CR.II.LT.11)GO TO 200	152540
ELMF(II-10.J) =ELMT(II-1(.J) +APRAY(II)	152550
ROO CONFINUE	352561
IF (NEW.EQ. 0) CALL PUT(IHIST.AH, 900.AH(1))	05257
IF (NEW. EO. 1) CALL PEPLC(IMIST, AM, 90 0, A+(1))	15258
GO TO 140	15259:
10 CALL CLOSEM(LFIT)	
J=1	35261
AH(1)="BLUE START"	952523
29 AH(Z)=4CI	35263
AH(3)=0.	35264
AH(4) =99999.	15265
NEWs 0	15256
CALL GET (IHIST, AH, AH(1))	15267
IF (1 H (4) . NE. 99999.) NE H#1	15254
00 230 II=1.83	35269
IF(II.GT.3.ANC.II.LT.11) AH(II) = 0.	35270
AH(II+10)=ELMT(II,J)	15271
ELM (II. J) =2.	
30 CONTINUE	35273
IF (NEH. EG. 0) CALL PUT (IMIST, AM, 90 0, AM(1))	15274.
IF (NEW.EQ.1) CALL REGLE (THIST, AH, 900, AH(1))	35275
IF (J.EQ. 21GQ TO 240	15276:
J=2	35277
AH(L)="RED START"	252783
GQ TQ 22C	15279

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240 PETJRN		15290
250 FORMAT (1) 'INITIAL FO®CEFILEHILL BE ACCED TO HISTORYFILE A	:5291
16) 270 FORMAT (35293 05284
280 FORMAT (INCOPRECTMUST BE Y OR A")	35269
380 FORMAT(PARENT- ", 410, 5x) SECTOR & CANNOT SE NEGATI \EREENTER")	<u>15296</u> 05297
310 FORMAT!	' ",A11,5x)	
		
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SUBPROUTINE CLEAR(IRG) 152913 COMMON/ONE/LFIT(35), ARPAY(90), H'9UF(1024).D(81,2),ACI.ASCENE.ASECT352923 COMMON/THREE/IHIST(35). AH(90). IYBUF(1024) 152930 OIMENSION RECS(15)

OATA RECS("SLUE ENO"."DED ENO"."CI AM"."CI ARMOR"."CI CANNON",

"CI AO"."CI A MC"."CI LOSSES", "INPUT 1", "INPUT 2",

"INPUT 36", "INPUT 4", "INPUT 5", "SLUE STAFT", "RED STAFT"/ 852940 152951 152960 352970 CALL OPENHITHIST, 3L I-G, 1LR) 092990 00 170 1=1.15 IF(RECS(I).EQ.0.1GC TO 140 152990 NN=30 IF (I .EQ. 7.QR. I . EQ. 8 INM=20 053020 AM(1) =PECS(I) AH(2)=ACI 153040 AH(3) = ASECT 153050 44(6)=99999. C53060 CALL GET (THIST AH AH (1) . G. NN) 357970 IF(1+(4).EQ.99999.)GO TO 160 053040 IF (I.GI.1)GO TO 110

IF (I.G..C). """ GO TO 110

PFINT *. "RECTOR ".ASECT." HAS PREVIOUSLY GAMED."

100 PRINT *. "IS THIS SECTOR BEING REGAMED NOW?" 153993 153100 353110 053120 CALL PEECA (IRG) 153130 IF (IRG. EQ. "Y") GO TO 110

IF (IPG. EQ. "N") GO TO 200

PRINT *, "ANSWER MUST BE Y OR "" 253140 153160 GO TO 132 953173 110 IF(4N.EQ.201GO TO 150 120 00 130 II=4.9? 053180 353190 . C=(II)HA 053230 053213 053225 130 CONTINUE CALL PEPLC (IHIST, AM, 900, AH(1)) IF(NN.EQ.30)GO TO 170

140 CALL GETN(INIST,AH,AH(1))

MRIFE"CH(IHIST, 2LFP) 353230 0 53 260 253253 IF (4.EQ.1 (08) 50 TO 170 153250 TF(AH(1) .NE.RECS(I) .OF.AH(2) .NE.ACI)GG TC 170 53277 150 IF (AH(4) . NE. ASECT) GO TO 140 153250 GO TO 120 160 IF (I.LE.1)GO TO 200 15329: 53310 ?5<u>331</u> 170 CONTINUE 140 PRINT 190 ASECT ACT 153321 190 FORMAT(" ALL STATS PECOPOS FOR SECTOR ".F6.0." OF CI ".A10." MAYE 153330 *BEEN "/" ZEPOED OUT ON HISTORYFILE.") 200 CALL CLOSEN (IHIST)
IF (IPG.NE. "N") IRG="Y" 353350 353360 353370 353380 RETURN 210 FORMAT (A1) END 383393

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Sections.

SUBROUTINE APPORT 15342: COMMON IA, IC, IP, IENGAG, ITERRY, IVIS, INCUNT, MINES, CFPR, FS FPR, FS. ATIME IFIRST IRUN MCGC. FYASS . THANKY. 253630 2SF(2),FSSF(2),PAGK(2), 3ELMT (60.2),ALGSS(66.66),SHOTS(55.2),CKILL (53.2),SHOTSV(55.2) COMMON/REED/JDAY1,XIN X(4),ICARD (20),IAPMOR 153442 153450 0 53460 COMMON/MATA/F PS (80.2).CREMS(53.2).A FQS(12).CPQS(6).ITHERM(20.2)
1 PSM (6.2.2).PLT (15).KEY (171) 153471 35348G 053501 COMMON/ONE/LETT(35). APRAY (90) . 478UF (1024) . G(83. 2) . ACI. LASCENE, ASECT

COMON/THREE/IMIST(15).AH(90).IV8UF (1024)

DIMENSION XL(90).CIL(6),IMOLD(90,2).CUMLOS(80,2).CAIF(80,2)

-.ICHECK(20).IMEAD(5).IMCO(6).IMPNT(5).STATS(24,10).IEFF(5).PAK(2)

DIMENSION IORAY(2) 053520 053530 053540 EQUI VALENCE (A REAY . 13FAY)

DATA (CIL (I) . I = 1.6)/1000 . . 5. . 2. . 1 . 33 . 1 . . 0 . /

DATA (ICHECK (I) . I = 1 . 2ú)/16 . 19 . 21 . 21 . 26 . 27 . 2 . . 45 . 47 . 50 . 51 . 53 . 54 . 15355: 353563 J53570 353580 - 51,52,4-0/ DATA PAK/103. . 100000000./ 253594 DATA STATS/24C-0./ 353603 OATA IHEAD/"(1H+,"," ","X,2X,2HUN,","3HIT=,A10,","6X1"/
OATA IFOR/"(1H+,"," ","X,2X,2MEL,","3X,6MLOST,","2X,6MREPA," :53610 153623 C. "2H IN. 2 X) "/ 453630 UATE IPRNT/"(1H+,"," ","x, 2x, 12,","1x, F6.1,", "2x, F6.1)" 353643 053650 G/ DATA IEFF/"(1H+,"," ","X,2X,2MEF,","ZHF#,F4.3,","11X)"/ 353660 253673 253680 DO 150 I=1. IHAKKY APRAY(I)=0 15<u>359</u>2 353790 XL(I)=G. 353713 353720 00 141 1=1.65 100 XL(I)=XL(I)+ALOSS(J,I) 093730 00 110 J=1,2 J 5374c IHOLD (I.J)=9 CAIR (I.J)=0. 053750 110 0(I, J)=0. 153761 128 CONFINUE 253772 Č 15378C 153790 138 PRINT +, "DO YOU WISH TO CHANGE COMBAT INTENSITY LEVEL FOR ANY UNI CALL REEDA (INY) 153400 153413 140 FORMAT (1A1) 153822 Im(INX.EQ. "Y")GO TO 150 IF(INX.EQ. "Y")GO TO 270 353933 153941 PRINT 1188 GO TO 138 :5385 353563 353573 150 PRINT -, "ENTER PARENT ID -" 15 3880

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CALL REEDS (ARRAY(1))
160 FORMAT (1A10) 153890 353900 170 FORMAT (" ". LAID) 153912 053925 153930 PRINT . "ENTER UNIT 10 -" CALL REECB (UNIT) 153940 053950 PARENT SARRAY(1) 35396C ARRAY(7)=99999. CALL GPENH(LFTT.3LI=0,1LR) CALL GET (LFIT,ARRAY,ARRAY(1 353973 353980 053990 IF(ARRAY (7) . NE . 99999 .) GC TO 190 754000 054010 054023 PRINT 18 C.PAPENT 180 FORMAT(" UNIT ".A10." IS NOT ON FORCEFILE!") 354333 354340 GO TO 250 C 854057 654663 354673 354390 054100 70 251 35411 05412C 054130 GJ FO 200 054140 220 PRINT *. "ENTER NEW COMBAT INTENSITY *"
CALL REEC4
ICIL=XINX(1) 154150 354160 054170 354132 THOP GETCIF TF(CILLEG. 999)GO TO 230
TF(CICLLGE.0.4NO.1CILLE.5).OR.(TCIL.GE.10.4NC.1CIL.LE.15))GO TO J54190 254200 Z 240 354210 PRINT + "INVALID COT INTENSITY LEVEL ENTERED."
230 POINT + "COMBAT INTENSITY LEVELS"
PRINT + "ENTER 0 FOR UNCOMMITTED UNITS" 354223 154230 354240 PRINT +, " 1 FOR UNITS OUTSIDE OF DIFECT FIRE! 2 FOR RESERVE UNITS CUMMITTED LATE! 154251 154261 3 FOR UNITS ON PERIMETER OF M94" 6 FOR UNITS IN MAIN MATTLE AREA" 5 FOR UNITS HIT BY TACAIR" PRINT ...
PRINT ...
PRINT ... 154273 354250 254290 50 TO 130 254310 240 IFLAG=1 054320 ICIL=LHOLO IF(ICIL-GE.10) ARRAY(9)=ICIL-ICIL/10+10 354330 354340 354353 ICIL=ICIL-ICIL/10+10 ARRAY(7) = ICIL 28436

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CALL REPLEILFIT.ARRAY.903.ARRAY(1))
IF(UNIT.EQ."ALL")
OT 0210 254382 250 IF (IFLAG.EQ. 3) PRIAT 1 10 UNIT 154390 260 CALL GLOSEM(LFIT) GO FO 130 054400 054413 Č 3544 23 270 CALL GOENH (LFIT.3LI-0.1LR) 280 CALL GETH(LFIT,ARGAY.ARGAY(1)) 054430 354443 154450 354460 M=TFETCH (LFTT.2LFF)

IF (M.EQ.1008) GO TO 313

IF (M.EQ.1008) GO TO 313

IF (M.EQ.1008) GO TO 333 354470 ICIL=ARRAY(7) 35448G J=48 94 Y(3) 054493 054500 CO 300 I=1.80 IF(IGIL.NE.5) GO TO 291 DATR (I,J) = DAIP(I,J) +ARRAY(I+10) 154516 254520 CATINT =CIL(ICIL+1)
IF(C87IN*.EQ.G.)CSTINT=1. 35453C 154545 D(I. 1)=D(I. 1) +ARRAY(I+10) /CBT INT 254550 154560 300 CONTINUE J54570 GQ TO 290 C 354580 CALL CLOSEN(LFIT)
CO 32G I=1,INAXKV 354592 254600 054613 D(I.1)=D(I.1)-IFIY(ALOSS(66.I)/PACK(1))/10. IF (9 (1.1) .LT.0.10(1.1)=0. 354623 O([,2]=O([,2]-[ALOSS(66.])-IFIX(ALCSS(66,])/PACK(1))-PACK(1))/13. IF(O([,2].LT.J.)C([,2]=J. 054630 154640 54657 320 CONTINUE 35466E IFLAG=0 DO 390 J=1.2 254670 154650 00 390 I=1.IMAXKV IF(J.EQ.Z)GO 70 340 KINO="BLUE" 254690 354730 354710 XN=IFIY(XL(I)/PACK(1))/19. 254726 IF(0(I,J).GT.0..OR.XN.LE.C.)GO TO 350 XL(I)=XL(I)-XN-10.--ACK(I) 154730 15474: 154757 XN=0. PPINT 330.1.KING 054750 330 FORMAT (" APPORTIONMENT OF ITEM ",12." LOSSES TO ",44," FORCE CANNOGS4770 IT BE MADE") 354750 GQ TQ 350 254790 340 XN=(XL(I)-IFIX(XL(I)/PACK(1))-PACK(1))/18. 054500 KIND ="RED" 054513 IF(0(1,J).GT.0..0Q. W.LE.C.)GO TO 350 354520 256433 354443 XL(I)=XL(I)-XN-10.

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	PRINT 330.1.KING	15485
350	IF(XN.LE.D(1.J))GG TO 390	15446
	IF(I.GT.3.ANO.I.LT.16)GO TO 390	15497
	C(1.J)=7.	15458
	DO 370 II=1,65	25459
	IF(J.EQ. 2) GO TO 360	25498
	0(1, J)=0(1, J) +IFIX(ALOSS(II, I) /PAGK(1))/10.	15491
	GO TO 37C	15492
360	D(1. J)=0(1. J) +(ALOSS(II.I)-:FIX(ALOSS(II.I)/PACK(1))+PACK(1))/1:.	
370	CONFINUE	15494
	0(I.J)=0(I.J)+ELMT(I.J)	35495
	IFLAG*1	15496
	PRINT 30 Q. I. KINC	15497
330	FORMAT (" INSUFFICIENT COT INTENSITY LEVELS HAVE BEEN ASSISHED FOR	
	ITE4 ".12," OF ".44." F(RCE")	15499
	IHOLD(I,J)=1	05530
390	CONTINUE	15501
	IF(IFLAG.E2.0)GO TO 4)8	35502
	PRINT ". "AUTO-ALLOCATION OF ABOVE MPN SYSTEMS HAS BEEN INITIATED"	
		35534
406	IF(IPUN.EQ.1) GO TO 1140	95595
	JFLAG=0	25526
	MRÎTE(6,410) ACI,4SECT	35537
410	FORNAT("1UNIT STATUS FILE FOR CI ".A1C." : SECTOP ".F6.2./)	25544
	WRIT 5(5, 600)	05519
	WFITE(6, 420)	75510
420	FOPHAT (21%, 2H-1-, 5 (21%, 1HI))	35511
	PARENT =" ALL"	35512
	CALL OPENM(LFIT.3LI-0.1LP)	25513
	CALL OPENM (IHIST, 3LI-O, 1LP)	35514
430	CALL GETN(LFIT, ARRAY, ARRAY(1))	35515
	MFLAG=0	15516
	M=IFETCH(LFIT, 2LFF)	05517
	IF(4.E0.100a) GC 70 450	15514
	ICIL =ARR AY(7)	25519
	IF (ARPAY (4) . NE. ASECT) FLAG=1	35520
	TF (ARRAY (5) .NE.AC I) MFLAG=1	35521
440	IF(PARENT.ER. "ALL") GO TO 610	05522
	IF(ARRAY(1) .EQ.PARENT) GO TO 630	05523
450	IF(NUNIT.EQ.0)GO TO SAG	:5524
	IFIPARINIT.GT.O.) PAREFFEFA FFPS ,PARINIT-100.	15525
	PRINT 460, PAPENT, PAREFF	155 ?6
460	FORM AT (" CUMMULATIVE EFFECTIVENESS (F ",A13,"=",F4,0)	15527
	HRIT E (6, 420)	15529
	WRITE(6, 420)	25529
	WPITE(6, 470) IP1	35530
470	FCRMAT (" +", 2X, "PARENT=", 410,1X,"==")	25531
	L 1=1	155 32

255333 255342 440 IF(1FL4G.EQ.1)L1=6 L 2=L 1+4 <u>15535</u>0 NERNIS=0 DO \$90 IUN=L1,L2 IF(STATS(1.IUN).E0.0.)GO TO 490 055360 055370 IHE& 0 (2) = NUMB (IUN+22) 055390 IF (IUN.GT.5) I HE AC (2)=NUH9 ((IUN-5)*22) 155390 IF(JFLAG.EQ.1.AND.NPRMTS.EQ.0) WRITE(6.500) 055483 IF(JELAG.EQ.1.AND.NPRMTS.EQ.0)WFITE(6.42C) 155413 IF(JFLAG.EG.1.AND.NF=NTS.EG.C) MRITE(6.420) WRITE(6.IMEAD)STATS(1.IUN) 155420 355430 NPRNTS=NPONTS+1 155440 490 CONTINUE 055450 IF (NPONTS .ED . GIGO TO 572 055460 500 FORMAT (21X-112(""")) <u> 15547</u>0 WRITE (6, 420) 155450 IEFE (2)=NUMB(0) 055490 IF(JFLAG.NE.1) WRITE (6, IEFF) PAREFF 055503 055510 00 510 JUN=L1,L2 155520 IFISTATS (1. IUN) .EC. 9) GO TO 510 IEFF (2)=NUM9(IUN+22) IF(IUN.GT.5)IEFF(2)=NLM8((ILN-5)+22) 055533 355540 WPIFE(6, IEFF) STATS (2, IUN) 55550 510 CONTINUE 355560 WRITE(6, 420) WRITE(6, 420) 05557C IFOR (2)=NUMB(0) 155599 IF(JFLAG.NE.1)HRITE(6.IFOR) 35530 00 528 TUN=L1.L2 955619 IF (STATS (1, IUN) . EQ. 0)GO TO 520 055623 IFOR (2)=NUMB(1UN=22)
IF(IUN-GT-5)IFOR(2)=NUMB((IUN-5)-22) 055630 355640 355650 WRITE(6, IFOR) 520 CONTINUE 15566: WRITE (5. 420) 55670 WRITE(6, 420) 055583 355693 KNT= 1 00 560 I=1.80 055763 IF (JFLAG.EQ.1.ANC.IBLNK.EQ.5)GO TO 560 IF (JFLAG.EG.1)GO TO 530 355717 15572: IF(CUMLOS(I.1).EQ. 0.. AN C. CUMLOS(I.2).EQ. 0.160 TO 560 055730 355740 IPPNT(2) =NUMB(8) 15575: WRITE(6, IPRNT) I, CUMLOS(I, 1), CUMLCS(I, 2) 530 IBLNK=0 35576: IF(KNT.GT.22)GQ TO 560 00 550 IUN=L1,L2 IF(STATS(2+KNY,IUN),EQ.0.)GO TO 540 15577G 355733 255790 IPPHT (2) =NU48 (IUN+22) 199310

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IF (I UM.GT.5) I PRNT (2)=NU49 ((IUN-5) *22)	35591
IHPN=STATS(2+KNT, IUN) -IFIX(STATS(2+KNT, IUN)/P4K(1)) +P4K(1)	05592
RLOST=IFIX(STATS(2+KNT, IUN) -IFIX(STATS(2+KNT, IUN) /PAK(2))-PAK(
C -IMPN/1000.	35584
REMAIN=IFIX(STATS(2+KNT, IUN)/PAK(2))/10.	05555
WRITE(6, IPRNT) IWP N, RLCST, REMAIN	35556
40 IF (STATS (2+KNT, IUN) .EQ. 0.) [BLNK=IBLNK+1	355 57
50 CONTINUE	15586
WRITE (6, 420)	<u> </u>
IF(IBLNK.NE.5)KNT=KNT+1	15590
IF (JFL AG . EQ . 1 . ANO . I BLNK . N E . 5) GO TO 530	15591
60 CONFINUE	35592
IBLNK=0	05593
70 JFLAG=JFLAG+1	35594
IF(JFLAG.EG.1)GO TO 480	25595
WRITE(6, 600)	15596
80 CO 590 IUN=1,10	15597
00 590 IHFN=1,24	05595
STATS (IMFN, IUN) =Q.	15599
90 CUNTINUE	35603
JFLAG=1	05501
00 FORMAT(" ",132(""))	15612 15613
IF (N.EQ.1008) 50 TO 949	35634
10 IF(ARRAY(1).NE.PARENT)NUNIT=0 PAPENT=ARRAY(1)	05605
IR1= IRRAY(1)	15616
	15617
CALL TRANS(IR1.IP1) PAREFF=0.	05608
PARFPS=0.	15619
PARINIT=0.	15610
IMORT=0	05611
I HQ= 75	35612
00 520 I=1,50	25613
00 523 J=1,2	75514
20 CUMLOS(I,J)=0.	35615
30 TFPS=0.	35616
UEFF=Q.	35617
JJ#ARRAY (3)	75619
IR2= IQ9AY(2)	15619
CALL TPANS (IR2, IR2)	75620
IF(MFLAG.EQ.g) NUNIT=NUNIT+1	05621
IF(MFLAG.EQ.D)STATS(1.NUNIT)=IR2	15622
40 FORMAT (" 0 PA "ENTE", A 10, 3X, "UNIT=", A 10//25X	15523
1 "EL HTS", 3X, "LOST", ZX, "RE PA IN")	25624
PERS = 0.	15625
IF (ARRAY (3) .NE. 1) GC TO 860	15626
NUPM = 3	15627
00 950 I=1.65	35624

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AIR(Q=0. IF(MFLAG.EQ.1)CUMLOS(I,2)=CUMLOS(I,2)+ARFAY(I+10) 156290 155310 IFINFLAG.EQ.LIGO TO 850 05631. IF(ARRAY(I+10).EQ.0.)GO TO 35G 056320 HOLD BARRAY (I+10) 156331 IF(CIL(ICIL+1).NE.0.)GO TO 650 156 340 IF(QAIR(I.JJ) .LE.G.)GG TO 650 XN=IFIX(ALGSS (66.I)/PACY(1)/10. 056 350 256 360 IF (xm. GT.OAIR (I.JJ)) xm=Ca 18 (I.JJ) AIPKO=4RPAY(I+10) 4xm/OAIP(I.JJ) 156370 156380 AIRGO=IFIX(AIRKO+10.+.5)/10 156391 ARRAY(I+10) =ARRAY(I+10) -A JRKO 356435 055410 IFIT .NE. 2160 TO 650 PERS =PERS+ATRKO 156420 650 IF (I.EQ. 2) GQ TO 850 256430 IF(0(I,JJ).LE.0.)GO TO 950 XN=IFIX(XL(I)/PAGK(1))/10. 255440 056450 IF(XN.GT.O(I,JJ)) XM=C(I,JJ) 056462 CHTINT=CILICIL+1) 156470 IF (387INT.EQ. 0.) COTINT= 1. 15648C if (tholo(i.ju).eq. 1) catint=1. 356490 AKO= (ARBAY(I+10)+XN)/(CSTINT+C(I,JJ)) 156510 AKC=IFIX (AKO+10.+.5)/10. 756515 ARRAY(I+10)=ARRAY(I+1C)-AKO 154520 CUMLOS (I . 2) = CUMLOS (I . 2) + A FRAY (I+1 () 356533 356543 AKO= AKO+ AIRKO STATS(NHPN.NUNIT)=I.FIFIX(AKC-13..CO11-PAK(1)-IFIX(ABFAY(I-13)-13 256553 C +.3 011+PAK(2) 35656G NUPNENUPN+1 056570 CUMLOS (I . 1) = CUMLOS (I . 1) +AKO 256530 IF(ARPAY(I+10).LT.0) ARRAY(I+10)=C IF(I.LT.13)GO TO 350 CLOST=(AKO-4[RKO)*CFEMS(I-12,JJ) ARPAY(12)=ARRAY(12)-CLOST 26595 156660 J56610 156621 :5663: PEPS=PERS+CLOST CG 660 INX#1,20 356540 TF (I .EQ. ICHECK (INX))GQ TO 670 156657 660 CONTINUE 256660 GO TO 850 056670 056640 670 AH(2)=ACI 056690 156700 AH(3)=ASECT AHIL) ="ERPOR" 956713 IFII .GE. 16 . AND . I . LE . 30) GO TO 680 196722 IF(I.GE.31.ANG.I.LE.421GO TO 690 IF(I.GE.43.AND.I.LE.58)GD TO 700 155730 256740 IF(I.EQ.61. JR.T.EC.62 1G0 "0 770 156750

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	AH(1)="CI ARMOR"	05679
	CAL_ GET (IHIST, AH, AH(1))	15679
	IF (AH(4) .EQ. "ERROR")GC TO 910	35680
	I WO= Q	15681
	INC= (I-11) * 4+11	15682
	FS=(AH(INC)+HOLD)/(CBTINT*D(I.JJ))	05663
	SHRT #4H(INC+3)	35684
	IF (T.GE. 16.AN). I. LE. 201SHRT =SHRT +AH(INC+2)	05545
	IF (I .EQ. 27) SHPT=4H (INC+2)	35646
	SHRT=(SHPT+HQLC)/(CBTINT+C(I,JJ))	25687
	IF (I .GE. 16.4NO. I.LE.22) IMC=76	ũ5688
	IF(I.Eq. 26.0R.I.Eq. 27) IM9=77	15619
	IF(I.En. 21.JR.I.Eq. 28)1 h0=7 8	25690
	IF(IHO.LT.76)GO TO 850	25691
	ARRAY(THC)=ARPAY(INO)+F5	35692
	ARRAY(INC+9)=ARRAY(INC+9)+SHRT	15693
	GO FO 35 C	35594
		05695
690	AH(1)="CI AG"	35696
	CAL GET (IHEST, AH, AH(1))	05697
	IF (BH(4) .EQ ."ERRO"") GC TO 310	35698
	INC= (I-31)-4+11	35639
	NW0*75	35739
	IF(I .EQ. 36) NWO=AQ	05731
	IF(I.EQ.36) MM()=AQ ARRAY (NMC)=(AH(INC)=HOLC)/(CSTINT=D(I,JJ))	35772
	APRAY ("MIT +9) = (AH(INC+2) + HGL C) / (CSTINT * C(I + JJ))	35733
	60 TO 35 9	35704
		05705
700	AH(1)="CI CANNON"	35736
	CAL_ GET(INIST, AM, AM(1)) IF(AM(4).E0. "ERROP")GO TO A10	85737
	IF(&H(4).E7."ERROP")GO TO 510	25708
	IMCz (I = 43) *4+10	15709
_	IF (I .GE. 43. AND .I .LE. 471 GO TO 750	25710
	IF(I.EQ.50.OR.I.EC.53)GO TO 733	35711
	IF(I.E7.51)GO TO 720	35712
	CO 711 II=1,4	35713
	APRAY (45) = ARR AY (85) + (AM (INC+II) -HOLD) / (CBTINT-C (I, JJ))	05714
710	CONF INUE	35715
	GO TO 150	35715
720	ARRAY(99)=(AH(INC+1)+HOLD)/(D9TINT+E(I,JJ))	35717
	ARRAY (86)= (AM (INC+3) = MOLO)/(C8 TINT = C(I, JJ))	35714
	GO TO 850	35719
730	I WD= 84	35720
	00 740 II=1,4	35721
	ARRAY(IMC+II) = ARPAY(IMO+II) + (AH(INC+II) + MOLO) / (CBTINT+C(I,JJ))	35722
740	CONTINUE	35723

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157250 157260 750 IND= 88 00 760 II=1.4 ARMAY(ING) #ARRAY(ING) +(AH(INC+II) + HCLE)/(CRTINT+D(I.JJ)) 357270 760 CONTINUE 257280 GO TO 950 157290 770 AH(1)="CI AH" 257320 GALL GET (IHIST.AM.AM(11) IF (A PRAY (4).EQ. "EPROR") GO TO 810 357313 357 320 IAMe 13 157330 357340 IF (I . EQ . 62) I AM=14 57350 I WQ= 76 00 790 INC=11,87,4 35736C IF(AH(INC).NE.APRAY(1))GO TO 798 AH(INC)=IAH 357360 00 780 II=1.3 357390 INX=INC+II ARRAY(IWD)=AH(INX) C57400 057410 INC=INC+1 157429 780 CONTINUE TRIENC.GE.901GO TO 800 157433 157440 790 CGNTINUE 800 CALL REPLO(IMIST.AM.900.AM(1)) GO TO 950 357450 357473 357480 810 PRINT 820, AH(1) 820 FORMAT(" ", A10, " RECORD NOT FOUND") 057499 057500 057510 GO TO 950 Ċ 057522 830 PPINT 860.I 757530 840 FORMAT(" AMMO RECORD SIZE FOR WEAPON TYPE ",12." IS INSUFFICIENT")057540 357553 <u> 257530</u> 357553 150 CONTINUE 257569 057570 50 TO 890 860 CONFINUE 157580 57590 JJ=2 NHPN=3 35750: 00 980 I=1,65 057513 357623 AIRKO=0. IF(MFLAG.EQ.1)CUMLOS(I,2)=CUMLOS(I,2)+ARRAY(I+10)
IF(MFLAG.ER.1)GO TO 8A0
IF(ARRAY(I+12).EQ.0.)GO TO 8A0
IF(DAIR(I,JJ).LE.0.)GC TO 870 057533 :57543 G57550 057662 IF(GIL(ICIL+1).NE.Q.)GG TO 970 xN=(ALOSS(66,I)-TFIX(ALOSS(66,I)/PACK(1))+PACK(1))/10. 057673 157683 IF (YN.GT.DAIR (I, JJ)) XN=DA 10 (I, JJ) AIRCO=ARRAY (I +10) *XN/DAIR (I, JJ) 157690 957733 AIRKO=IFIX(AIPKO+10.+.5)/10. 357710 ARRAY(I+10) = ARRAY(I+10) -A IRKO 157723

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X, **Y**

IFIL.NE. 21GO TO 878 PERS=PERS +AIRKO 357743 AZQ IFIL .EQ. 21GQ TQ 880 157750 IF()(I,J).LE.G.)GO TO 88G XN=(XL(I)-IFIX(YL(I)/FACK(1))+PACK(1))/10. 357760 257772 IFIXM.GT.D(I,JJ)) XM=D(],JJ) 357780 CBTINT=CIL (ICIL+1)
IF (GBTINT-EQ. Q.) CBTINT=1. 357793 057500 IF(IHOL)(I,JJ).EQ.11C9TINT=1. AKO=(ARPAY(I+10)*XN)/(G9TINT*C(I,JJ)) 257512 957923 AKO= IFIX (AKO+10. . . 5) / 10. 957530 ARRAY(I+10) =ARRAY(I+10) -AKO 257560 CUMLOS (I.2) = CUMLOS (I.2) +APRAY (I+1 () 357853 AKO AKO+AIRKO 157560 STATS(NWPN.NUNIT) = I + IFIX(AKO-10+.001) -PAK(1) + IFIX(ARRAY(1+10)-10+ 357473 .001) 4P AK(2) 057980 HHPH=HHPH+1 357990 CUMLOS (I, 1) = CUMLOS (I.1) +AKO 057900 IF(ARPAY([+10).L7.0) ARPAY([+13)=0 IF([.L7.13)GO TO 660 057910 CLOST= (AKO-ATPKO) CHEHS (I-12. JJ) 157930 AFRA Y (12) = ARR AY (12) -CLOST 157940 PERS=PERS+CLOST 357950 880 CONTINUE 157940 890 IF (MFLAG.EQ.1)GO TO 910 IF (ARRAY (12).LT.0) ARFAY (12)=0 357983 CUML 05 (2 . 2) = CUML 05 (2 . 2) + AFRAY (12) 157993 255038 STATS (NWPN, NUNIT) = I + IFIY (FERS - 13+.001) + PAK(1) + IFIX (ARRAY (12) - 10 158013 +. E01)+P4K(2) C 159023 CUML OS (2.1)=CUMLOS (2.1) +PERS 900 FORMAT (26X,13,4X,F5.1,2X,F5.1) 054033 358040 910 DO 920 I=1.65 920 TFPS=TFPS+ARRAY(I+10)*FPS(I,JJ) 358053 358360 IF (MFLAG . EQ. 1) GO TO 940 IF (APPAY(6) .GT. 0.) UEFF=TFPS/ARRAY(6) +1 (0. 358050 STATS(2, MUNIT)=UEFF PRINT 930, APPAY(2), UEFF 155090 358133 930 FORMAT (" EFFECTIVENESS OF ",A10,"=",F4.() 354113 05A12: AROLY (4) SUEFF 940 PAPERS=PARERS+TERS 354130 PARINIT=PARINIT +ARRAY (6) 355140 158150 ARRAY (7) = ARRAY (9) IF (MFLAG. EQ. 1) GO TO 430 059163 958173 950 NEW 0 255150 AHIL) =ACI AH(Z)=ARFAY(1 059199 AH(3)=AREAY(2)

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W - 1, 3

AH() = 99 999. CALL GET (THIST, AH, AH(1)) 5 58 22C IF (AH (4) _NE . 99999_1 NEH=1 350233 AH(%) =ARFAY(4) 058240 AH(5) = ARF AY(3) 058251 DO 960 T=6,90 358260 AH(I)=ARRAY(I) 699270 966 CONFINUE 359293 IF (MEW.EQ. 0) CALL FUT (THIST, AH. 980. AH(1)) 156290 IF (NEW.EQ. 1) CALL REPLC(IHIST, AH, 90 0, AH(1)) 156 300 00 970 I=76.90 058310 978 ARREY(1)=0. 059323 CALL REPLECIFIT, ARRAY, 900, A FRAY(1)) 356330 GO TO 439 154340 980 CALL CLOSEN(LETT) 156350 DC 390 II=1.93 059360 AH(II) =0 . 358372 990 CONFINUE 356 350 AAHL = CI LOSSES 058399 1000 AH(1)=AAH1 158400 AHIZI =AG 358410 358423 AH (6) =99999. GALL GET (THIST.AM.AM(1).0.20) IF (AM(4).EQ.99999.)GO TO 1030 058433 355443 1010 IF 18 HIST . ME. ASECT) GO TO 1720 CALL CLTE(IHIST) 054450 358460 1020 CALL GETN(IHIST, AH, AH(1))
H=IFETCH(IHIST, 2LFP) 158471 358448 IF(.EQ. 1 (09) GO TO 1030 258499 IF(AH(1).EG.AAH1.AND.AH(2).EG.ACI)GO TO 1010 1030 IF(AAH1.EO."CI AHNO")GO TO 1040 AAH1="CI AHNO" 258533 058513 358523 GO FO 1968 1840 AH(1)="CI LOSSES" 055530 356540 AH (2) = 4G1 058553 AH(3) = ASECT -1 00. 358560 AH(5)=ASECT 00 1060 I=1,IMA MV 055573 158580 I= (4) HA 258592 15860: IPUT =C CO 1050 J=1, IMAXKV 158610 054620 (L, I) 220JA= (01+L) HA IF (4 H (J+10) .NE. 0,) TPU =1
1050 CONTINUE 354633 258640 IF(IPUT.NE.Q) CALL PUT(IHIST.AH.935.AH(1)) 358653 154560 AH(3)=4H(3)+1PUT 15467 1968 CONTINUE 00 1071 K=1.90 358680

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	ENO	3501
	CONTINUE	2591
. 90	CALL CISPLAY GO TO 1140	1590
- 20	AALL ATEGUAY	3590 3590
	GO TO 1150	1593
90	FORMAT! " INCORPECT! RESPONSE MUST BE YES OF NO -TRY AGAIN")	0595
_	PRINT 1180	3596
	IF (INT.EQ.1HY) GO TQ 1190	2590
	IF (INT.EQ.1HN) GO TO 1200	3593
70	FORMAT (" ",1A1)	0590
60	FORMAT(A1)	0590
	CALL REEUA(INT)	3589
68	PRINT ", "DISPLAY A UNIT? "	3589
	GO FO 1120	1549
	AH1= "RED" ENC"	2589
	J=2	1569
	CALL CKSTOR(AM1.IFUT) IF(J.EQ.2)GO TO 1140	1559 1559
30	CONF INUE	8549
	AH(I+10)=EL4T(I,J)	1589
	00 1130 I=1,I MAXKV	1589
	CALL CKSTOR(AHL, IFUT)	3545
20	IPUT =-1	i588
	J=1	0555
	AH1: "BLUE END"	3588
10	CALL CLOSE H (THIST)	1544
	GO TO 1090	3585
	4H (3) = 4H (3) +1.	3588
	IF(J.EQ.2)GO TO 1110	1588
	CALL PUT(IHIST, AH, 908, 4H(1))	3565 3565
0.0	CONTINUE	1587
	AH (I +13) = SHOTS (I , J)	3567
	00 1140 I=1,55	3587
90	AH(4)=J	3557
	Ja j	0587
	AH(S) = ASECT	3587
	AH(3)=ASEC7+100.	3597
94.	AH(2)=4GI	1587
	CONTINUE AH(1)="CI_AHMO"	1587

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SUBROUTINE BUILD COMMON IA. 10. IP, IENGAG. ITERRN. IVIS, INQUNT, HINES, CFPR. FS FR. FD. 059140 <u>latime.ifirst.irum.ncpc.fmass.imaxkv.</u> 059150 25F(2) . FSSF (2) . PAGK(2) . 559167 3EL 47 (83.2). ALOSS (66.66) . SHO TS (55.2) . CKILL (53.2) . SHOTSV (55.2) 259170 COMMON/REED/JOAY1, XINX(4), ICARD(23), IARHOR 359180 COM ON/DATA/F PS(80.2).CREWS(53.2).AFQ (112).DFDS(6).ITHE: 4(23.2). 359190 1 PSH (6,2,2) .PLT (15) . KEY (171) COMMON/ONE/LFIT(35) ARRAY(90) , 479UF(1324) .C(80,2) .ACI. 059210 . ASCENE, ASECT, YSECT 159222 COMMON/TWO/IFIT (35) . GRRAY (46) . NYSUF (1824) 15923: 100 BRRBY(1) ="\$2C" 0 59243 AMOLD=BREAY(1) CALL OPENM(IFIT.3LI-0.1LR) 00 110 I=2.45 359270 BRRAY(I) = 3 3 592 95 110 CONFINUE 159290 359383 ABOVE DC LOOPS ZERO OLT WORK ARRAYS 059320 159 330 120 PRINT *, "ENTER SRC ACTION TYPE -" CALL REEDA 959350 059360 INX= XINX (1) IF(INX.E0.999)G0 TO 130
IF(INX.GE.0.AND.INX.LE.4)G0 TO 140 159371 05938C PPINT *, "ACTION CODE ERROR - TZY AGAI!"

130 PRINT *, "VALID ACTION CODES." 0 59 390 159430 PRINT +, "ENTER 0 TO RETURN TO JECISION FOINT"
PAINT +, " 1 ° 0 ADD A NEW SRC"
PPINT +, " 2 TO DELETE A SAC"
PRINT +, " 3 TO DISPLAY A SPECIFIC SRC" 25941 15942: PPINT 4, " 059430 059440 PRINT *, **
GO TO 120 4 TO DISPLAY ALL SPC'S" 159450 159461 140 GO TO (460,277,360,150,400), INX+1 15948: 150 PRINT 4, "ENTER SAC TO BE CISPLAYED -"
CALL PEECB (4SPC) 059493 159500 359513 BARAY(2) . ASPC 159522 BRRAY(3) = 90909 CALL GET (IFIT.BARAY.BRRAY(1))
1F(3RRAY(3).EQ.90909) GO TO 250 15953<u>:</u> 59540 359550 359560 PRINT 190 .SRRAY(2)
180 FORMAT(1X, "SRC=",A13.5X," 10 0TY") 00 200 [=3,45,2 IF (BRRAY(I).EQ. 0) GO TO 200 159570 159591 IID= BRRAY (I) PRINT 190, (IID, 8RRAY(1+1) 359600

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196 FORMAT (20x, 13.F5.3) SCO CONTINUE 15962: 159630 210 PRINT +, "DISPLAY ANOTHER SRC?" 359540 CALL PEECA (INX) 35965C IF(INX.EQ. "Y") GO TO 158 059660 IF (INX.EG. "N") GO TO 120 GO TO 210 250 PRINT 260 , ASRC 059580 959690 959700 , ASRC 8024 Y (3) =0 260 FORMAT (1x. "SRC ", A10," NO" ON FILE") 059712 GO TO 210 270 FRINT - FENTER SPC TO SE ADDEC - CALL REEDB(ASRC) 059723 059733 059743 BPPAY(2) =ASRC 059750 BRRAY(3) = 90909 CALL GET (IFIT, BPRAY, BRRAY(1)) 059760 059770 IF (9RRAY (3) . NE. 90909) GO TO 320 059740 059790 NN=1 059833 PPINT 240 280 FORMAT (1x, "ENTER WPN ID. GTY -- (.) IF CONE ") 059818 159920 290 CALL REEDS 159831 159840 (S) XMIC =LA IF (MM.EQ.0) GO TO 300 25 94 SC 259860 MNSH N+2 BRREY (NN) -HM <u>0</u>59570 PRRAY(NN+1)=AJ PRINT +, "NEXT-" 259845 159890 GO FO 290 359903 300 CONFINUE CALL PUT (IFIT, 8 RAY, 460, 8RRAY(1)) 359910 159920 H=IFETCH(IFIT, 3LIRS)

IF (M.ED. 4668) GO TO 320

310 FORMAT(1x, "SRC-", A10, " ALREADY ON FILE") 159930 `05994C 159950 GO TO 330 320 PRINT 310, AS 90 9994 Y (3) = 0 359963 259970 259940 336 00 340 I=2,46 359990 BRRAY(I)=0 3600°C 340 CONTINUE 350 PRINT *, "ADD ANOTHER SPC?" 350310 :60:2: CALL PEECA (INX)
IF (INX.EQ. "Y") GO TO 270 953330 360340 IF (INX.ED. "N")GO TO 128 060350 GO TO 350 360 PRINT *, "ENTER SRC TO BE DELETED -" 260263 250070 CALL REECHIASFO 350396

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8RRA Y (2) = ASRC 8ARA Y (3) = 9090 9 160090 060100 360110 GET (IFIT . BERAY . BRRAY(1)) CALL IF (SREAY (3) .EQ. 90 909) GC TO 360 CALL OLIF(IFIT. BRRAY(1)) 260123 060130 GO TO 420
300 PRINT *- SRC *- BRRAY(2).* NOT ON FILE *BRRAY(3)=0 063140 260150 360160 390 PRINT - "DELETE ANOTHED SRC?"

CALL REEDA(INX)

IF(INX.EQ. "Y")GO TO 360

IF(INX.EQ. "N")GO TO 120 250170 360180 050190 C60230 260213 060220 GO TO 391 410 CONTINUE 165530 CALL GETM(IFIT.8PRAY.8RRAY(1))
M=IFETCH(IFIT.2LFP) 360240 060256 IF(4.E9.1308) GO TO 420 050 260 IF (A HOLD . EQ. B KRAY (1)) GO TO 432 360270 353280 GO TO 410 420 CALL CLOSEM(IFIT) : 60 290 GO TO 190 430 PRINT 180.3RRAY(2) 90 440 I=3.45.2 IF(BRRAY(I) .EQ.0) GO TO 440 0 60 300 163 310 369322 960330 060340 IID= GRPAY(I) 250350 PRINT 190. (IIO. SPRAY(I-1)) 440 CONFINUE 060360 03 450 I=2,46 360370 SRRAY(I)=0 060380 960393 C69403 450 CONT INUE GO TO 410 GALL CLOSEN(IFIT) 363410 ENO 163430

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To Hory

SUBPOUTINE AHAO	350450
	160460
	360470
	0 60 480
	168490
	062500
	960510
	360529
	360530
	360540
	063550
COM ON/EW/PCOGR (2, 4), ICOUNT (8), ISHOKE (2), FCSHO (2), FCSH (2), AR2 (2)	060560
	060570
DIMENSION ORC (7.2.8). PK (224). SK(12.2, 10). V(5). KINC (2). WEAPC (3).	160542
1SF4GT(12.2).PKILL(12).PFKILL(7).TMASK(4).APOP(8.2).SA(7).CELL(7).	96 9590
2NPOP (7) . POPOR C(7, 8) . GNOLOS (8, 42, 2) . AIRLCS (13,7,2) . ACKILL (7,2) .	366666
30PAY (42,2), GFKILL (42).ACLOST(7), ACCREH(2), ACAV(7,2), MAXPOP(7,2)	360613
DIMENSION TRAMO(12), TRAMO(12), PAG(3), AGQ(5,7), PCNSM(2), PGAG(7,4)	050620
DIMENSTON PF(12),SHTS(12),DUST(4,20,2)	060630
CATA (((CUST(I.J.K).J=1.20).I=1.4).K=1.2)/	360640
1 4-1 ., . 92, . 35, . 3, . 75, . 71, . 66, 3-1 ., . 38, . 3, . 73, . 67, . 51, 2 53,	160650
	060660
	360670
	260682
3 241 9 7 6 . 5 + 9 2 + 1 7 9 6 3 4 . 5 + 0	350693
1 2-1 93 8 7 62 55 49 44 39 . 1 98 79 55 55 47 4 26 .	363703
	368713
	160723
	160730
2 2-1 . , . 65 , . 69 , . 56 , . 44 , . 26 , 3-0 . , 1 . , . 93 , . 7 , . 54 , . 41 , . 39 , 4-2 . ,	363740
	960750
CATA (((OPO(I,J,K),K=1,8),I=1,7),J=1,2)/	350763
1 3*9	350770
2 8 -9 . ,	050780
3 16,,5*0.,1200.,0.,	360790
4 9.,8.,340.,0.,600.,0.,	050900
	366413
6 949	161453
7 349.,	360,930
	360940
	36095C
· · · · · · · · · · · · · · · · · · ·	060463
	363979
- 404,00,00,00,00	366886
	163590
, , , , , , , , , , , , , , , , , , , ,	060900
	360913
9 10 2. 36. 3. 92. 2. 36.	260923

	2*2.86.3*3.52.5*2.86.3.52.2.86/	36093
	DATA ((OPAV(I, J), I=1, 42), J=1,2)/	16004
8	3 , 83 , 941 , ,	06095
	3 .95 , . 91 , . 93 , . 95 , . 95 ,	36396
	3. ,70 , ,79 , ,67 , ,78 , , , , , , , , , , , , , , , ,	25097
	.95,.93,.93,.93,.93,.93,.93,.93,.93,	ü6998
	-6075 -5 - 63 - 65 7 - 2 7 1 -	25099
	. 63 , 9*1 . ,	35100
	95.95,91,1.,86,	
	2 34.79,.62,.0,	36132
	2 .9595 93 93 95 95 95 95 93 .	<u> 96133</u>
	64.85,34.83,34.85/	25104
	DATA ((ACAV(I, J), I=1,7), J=1,2),24,65,24,81,.74,.76,.80,376	26105
1	. 3*. 61 81/	85106
	DATS (V(I), I=1.5)/1	75107
	DATA (KIND(I), I=1, 2) /"GLUE", "RED"/	36188
	DATA (WEAPC (I) . I = 1 ,31 / . 9 7 1/_	36139
	DATA (TMASK(I), I=1,4)/4*.6 (/	36110 36111
	MATA ((APOP(I, J), I=1,A), J=1,2)/1.,1.,3.,G.,G.,G.,S.,C.,d., 1 1.,1.,1.,1.,32.,5.,0.,6./	36112
•	0474 (((41 FLOS (K,1,J),K=1,13),I=1,7),J=1,2)/182*0./	36113
	CATA (((GNCLOS (K.I.J), K=1, 9), I=1, 42), J=1,2)/672°0./	06114
	CATA (ACCREM(J), J=1, 2) /2-0./	36115
	DATA (TRAMO(I) .I=1.12) /44.45.46.44.47.46.48.52.51.1.0.54/	75116
	DATA (194 MO(1) ,1=1,121/44,45,0,3,47,48,49,53,52,53,53,54/	u6117
		36119
	POINT(52.*1"*****AHAC"	06119
	CO 100 TEL=1.2	3 61 23
	PCNSH(IEL) = (1PCSHO(IEL)) = (1PCSHO(3-IEL)/2.) + (1FCSS+(IEL))	36171
100	CONTINUE	36122
	IV=IVIS	161,23
	IF (! V.EQ.5) IV=4	16124
	I*(IV.EQ.6) IV=4	36125
	NORO =1	16126
	IF(JOAY1.EQ."OAY") NCRO=2	J6127
	CALL SPENNS(3.KEY.171.0)	36129
	CALL READMS(3.SSK.240.39)	35129
	DO 9995 I=1,240	75130
	SSK(T) = SSK(T) 4.5	_ 36131
9998	CONTINUE	06132
	CALL REACHS (3, MAXPOP, 14, 170)	06133
	CALL CL (SMS (3)	G6134 G6135
	00 110 2=1,90	06136
	ARRAY(I) = G	35137
110	CONTINUE	- 36139
	FORMAT(" INCORRECT ENTRYTRY AGAIN")	36139
	PRINT . "DO YOU WISH TO PROCESS AIR CEPENSE/APMED HELICOPTER ASS	

:	13MBN 75?	351413
	CALL KEE CO (INX)	361423
	IF(INX.EQ. "Y")GO "0 160	361430
	IF(INX.EQ. "N")GO TO 1290	751445
	GO TO 150	361453
		361463
160	PRINT "." AIR DEFENSE/ARMED MELICOPTER ASSESSMENTS"	3€1470
	JVIS=IVIS	661443
	IF(JVIS.EQ.5) JVIS=4	361493
	00 1140 J=1,2 ·	361500
	IF(J.EQ.2)GO TO 165	361513
	NCL=11	061523
	MAK #50	361530
	NW=19	061543
	GQ 70 167	361553
165	IPUT ==1	361560
	AHI= "CI AH"	361570
	CALL CKSTOP(AH1, IPUT)	361580
	NCL= 51	351590
	NMAX =90	361603
	NH=5 q	051610
167	L=3-J	361620
	SH=1FS SF (L) +2.86	261630
	IF(SH-LE2)SH=.2	J61640
	JPSN #1	161650
	IF(J.EQ.TO)JPSN=2	351660
	00 170 K=59,65	061676
	IFIELHTIK.L).GT.0.160 TO 190	361650
170	CONTINUE	061690
	GO TO 1120	061700
150	FRINT 196.KIND(J).KIND(L)	061710
190	FORMAT (" DO YOU WISH TO GAME ".A4." ADA AND ".A4." A/C? ")	351723
	CALL REECA (INX)	361730
	IF(INX.E0."Y")G0 TO 200	35174C
	IF(INX.EQ."4")GO TO 1148	351750
	GO TO 180	061760
-	SET AD ENVIR CHMENT	051773
	PPINT 210,KINO(J)	051780
	FURMATILITY THE FOLLOWING SETS PAPAMETERS FOR ".44." AC WEAPONS "/1	
	PRINT 230, KINO(J)	351990
230	FORMAT (" ENTE" ", A4." MEAPON CONTOCL (STATUS) FACTOR- ")	351917
	CALL REEC4	361320
	KTRL=XINX(1)	351830
	ARRAY (NCL+1) = KTRL	361340
	IF (KTRL.GE.1.ANO.KTRL.LE.3)GO TO 750	051950
	IF(KTRL.ED.999)GO TO 240	J6196:
24.5	PRINT 13C PRINT "," FOR WEAPON FREEENTER 1"	161 17:
545	PRINT "," FOR WEAPON FREEENTER 1"	J51351

	PRINT "	HEAPON TIGHT ENTEP 2"	:61.19
	PRINT	WEAPON HOLDENTER 3"	36130
	GQ TQ 22 0		36131
250	CONFINUE		36192
		TANOGFF RANGE INCEX- "	35193
	CALL REEC4		36194
	IR=KINX(1)		_06195
	ARRAY(NCL+2)=IR		86196
		R.LE.10)GO TO 273	_06197
	IF(IR.EQ.999)GO	10 Sea	06198
	PRINT 130		J61990
S e 0	PRINT -, "IF RANG		35230
	PRINT	1000 2"	16231
	PRINT *,"	1500 3"	162029
	PRINT 4,"	2000 4-	162130
	PRINT ","	2500 5"	062940
	PRINT *."	3030 6"	062350
	PRINT *,"	3500 7**	062063
	PRINT	4000 9"	16207
	PRINT *,"	4500 9"	362283
	PRINT 4,"		162390
274	GO TO 25 C		362130
-6/ V	CONTINUE	W 4 24 At	162110
	CALL OPENMS(3,KE		362123
		-1)-10)+((NORE-1)-40)	<u> </u>
	CALL REACHS(3,AC		062140 052150
	CALL READMS (3,PD	R.NORC.L.J.0.10.2.0.3)	16215
	INC= 39+1R	46) 20) 1 NC I	36217
	GALL REACHS (3,PK	22. 7.01	36218
	00 9999 I=1, 22	• 654+1 PG /	552190
	PK(I)=PK(I)5	<u>* </u>	162233
	CONTINUE		362213
Z 7 7 7 _	CONTINUE		16222
	GALL OL CSMS (3)		162230
240		ERCENT (DECIMAL) AD COMPLETED BY PANGE FACTORS."	16224
200	PRINT + "SHORT . M		362250
	CALL REECA	. 61 ALLE AUG	36226
	PAG(1)=XINX(1)		162271
	PAN(2)=XINX(2)		152291
	P40(3)=XINX(3)		J6229:
	ARRAY (NCL+3) =PAD	111	362388
	ARRAY (NGL+4) =P40		362310
	ARRAY (NCL+5) =PAD		162320
	CO 290 N=1.3	147	162331
		AND.PAD (NJ.LE.1.1GO TO 290	362340
	TE IS MOTHER OF FREE		
	PETNT * "THOOPPE	CT ENTRYMUST BE BETWEEN C. ANC 1. "	362350

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290 CONTINUE 300 PRINT 310, KINO(J) 162380 310 FORMATI" ENTER PRIORITY WEIGHTING FACTOR FOR ".A4." ACA TARGETS (MOS2 390 14x=5}-362490 CALL REED4 362410 WEIGHT=XINX(1) ARRAY(NCL+6)=HEIGHT IF(MEIGHT.GE.1..ANG.HEIGHT.LE.5.)GG TG 320 J6244C PFINT 130 GO TO 300 C 62450 362460 329 00 33J I=31,42 652473 FPS(1. 1) = FPS(1. 1) = WEIGH? 162461 330 CONTINUE SET FLYING TIME AND + SOPTIES PER HOUP 362490 262500 PRINT 740, KINO(L)

340 FORMAT(//* THE FOLLCWING SETS PAPAMETERS FOR ".44." MELICOPTERS*/)362523
350 PRINT 360, KINO(L), ATIME

962533 360 FORMAT(" ENTER TOTAL FLYING TIME FOR ", 14," A/C THIS CI (MAX= ", F4362540 1.1." HOURS)-CALL REEC4 262552 H=XI NX (1) ARRAY (NCL+7)=H 062533 IFM. E.ATIHE. AND. H. GE. 0. 160 TO 370 PRINT 130 962590 362500 GG TO 350 370 PPINT 380, KING(L) 380 FORMATI" ENTER SOPTIES FER HOUR FOR THE FOLLOWING ".A4." A/C (HAX=052630 13.)") 252541 16255: 16256: 00 400 K=59,65 IF(ELMT(K,L).LE.C.)GO TO 400 KK=K-59
390 PFINT *, "TYPE ",K,": 262673 062683 CALL REED4 162590 SA(RK)=XINX(1) 162700 IFISAIKK).GT.J..AND.SAIKK).LE.3.)GO TO LOC PPINT 130 GO TO 390 362723 400 CONFINUE 352740 COMPUTE # SORTIES AVAILABLE 162750 00 410 K=59.65 35276: 362773 KK*K-58 410 SAKK)=SAKK)+H+ELHTK,L)-ACAVKK,L) 262793 PRINT 420, KING(L), KING(J) 162793 15290: 420 FORMATIVE BEGIN BUILCING CELLS OF ".A4." A/C TO FLY AGAINST ". 352313 1A4," GROUND FORCES"/) 362423 PRINT 43C, KIND(L)
430 FORMAT(" TOTAL ", 44." A/C AND SORTIES AVAILABLE THIS CI")

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GO TO 450
460 PRINT 450, KIND(L)
450 FORMAT(" ", 44, " A/C AND SCOTIES REMAINING THIS CI")
460 PRINT *," A/C TYPE # A/C # SORTIES" 16295: 16296: 5287: 362880 00 488 K=59.65 162490 KK=K+59 362903 CELL (KK) = 0 362910 ACKILL (KK. 1) = ACKILL (KK. 2) = 0 952920 HELISTRIKELMY(K.L) PACAV(KK.L) -AIPLOS (13.KK.L))
IF(SA(KK) LE.J.OP.HELI.LE.(.)GO TO 480 C62930 162940 PRINT 470 K. HELI . SA (KK) 362950 470 FORMAT (9x,12,3x,F4.0,9x,F5.0) 152960 PRINT +, "ENTER A/C ELMT +.NO. ACCEC(+ OR -) TO CELL--C.3 TO STOP- 362933 162999 490 CALL REEC4 363333 K=XINX(1) 163310 AC=X INX(2) 363320 IF (K.EG.0) GO TO 590 063030 TF (K.LT. 59.0R.K.GT. 651GO TO 510 053340 KK=K-5A 463450 IF (JELL(KK) +AC.LT.0.) GO TO 540 363360 IFIGELLIKK) +AC.GT.ELMT(K.L) +ACAVIKK,L) -AIFLOS(13.KK,L))GO TO 536 363370 IF CELL (KK) +AC. GT. SA(KK) 160 TO 520 3630AC CELL (KK) = CELL (KK) + AC 500 PRINT *, "NEXT ENTRY -153190 363100 GO TO 499 518 PRINT ", "INVALID A/C ELMT #--ENTRY IGNOREC" 353110 163120 GO TO 500 063130 528 IF (TRUN. EQ. 3) GO TO 550 063140 PRINT - . " 4/C ENTERED REQUIPES HORE SORTIES THAN ARE AVAILABLE"
PRINT +, "ENTRY IGNORED" 163153 343160 GO TO 501 363170 530 IF (IRUN. EQ. 3) GO TO 560 363190 PRINT -, "# 4/C ENTERED EXCEEDS # AVAILABLE -- ENTRY IGNOREC" 163190 GO TO 500 363200 540 IF (TRUN.EG.3) GO TO 570
PRINT *, ** A/C FLYING CANNOT BE NEGATIVE--ENTRY IGNORED** 36 322: 50 TO 50C 163230 550 CELL (KK)=S4(KK) 163241 GO TO 580 163250 560 CELL (KK) = ELNT (K.L) + ACAV (KK, L) - AIRLOS(13.KK, L) 163250 IFICELLIKK) .GT .SA (KK))CELL (KK) = SA (KK) 163290 570 CELL(KK)=0. 580 PPINT *, "ENTRY ADJUSTED FOR TYPE ".K," A/C" GO TO 500 063290 363303 1533: 590 ICF= 0

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	IF(J.E0.1.09.CELL(3).LE.0.160 TO 639	263730
600	PRINT 610	363340
610	FORMATI" ENTER AM MISSILE FIRE LAUNGH METHOC- ")	<u>163353</u>
	CALL SEEC4	353360
	IDF= MINX (1)	363373
	IF(IDF.GF.1.4NO.IGF.LE.2) GO 70 638	363383
	IF(ICF.EQ.999) GO TO 620	363390
	PRINT 130	3 €3 4 8 3
620	PRINT "," FOR INDIRECT FIRE LAUNCHENTER 1"	063410
	PPINT . FOR DIPECT FIRE LAUTO OR REMOTE CONTROLI ENTER 2"	3 53420
	GO TO SOC	063430
630	00 48G KK#1,7	363440
	NPOP (KK) = ŋ	163450
	GO 558 ITYP=1,8	0 63460
	POPS PCIKK, ITYP) = 0.	0 6347
	IF(ITYP.GT.5)G0 70 650	3 63 48 9
	IF (KK.EQ.5.4NO.L.EQ.2.ANO.ITY9.GT.1)GO TO 650	263490
	IF(IDF.EQ.1.AND.KK.EQ.3.AND.L.EQ.1.ANC.ITYP.GT.11GO TO 553	36350
	IF (IDF.EQ.1.ANO.KK.EQ.3.ANO.L.EQ.1.ANO.ITYP.EQ.1)GC TO 540	16351
	GIV= APOP (ITYP,L) +POAC (KK,IV)	953529
	IFIDIV.LE.O.IGO TO 650	263530
	NPOP (KK) =NPOP (KK) +ORO (KK+L+ITYP) /OI \	163540
	IF(IDF.NE. 1.OR. KK.NE. 3.OR.L.NE. 1)GO TO 650	363550
640	IF(ITYP.GT.1)GO TO 650	363560
	DEN= CELL (5)+CELL (7)	15357
	IF()EN.LE.0.)GO TO 650	163510
	GIV- (ICELL(5) -PCAC(5, IV) -CELL(7) -PCAC(7, IV))/DEN)	363591
	IF(DIV.LE. J.) GO TO (5)	3 63600
	NPOP (KK) =NPOP (KK) +ORD (KK + L + ITYP) /CIV	16362
650	CONTINUE	063633
	IF(IDF.NE.1.OR.L.NE.1)GO TO 660 IF(KK.EG.5.OR.KK.EQ.7)NPOP(KK)=NFOP(3)	- 053640
960	IFINPOPIKKI.LE.0)GO TO 640	16365: 16366:
	DO 679 ITYP=1.8 IFKKK.EQ.3.AND.IDF.EQ.1.AND.L.EQ.1.ANC.ITYP.GT.1)GO TO 689	753670
	FORGRO (KK.ITYP) =ORC (KK.L.ITYP) /NPOP (KK)	153680
		063690
	CONFINUE	26373
974	CON TAGE	36371
	00 645 KK=1.7	163723
	IFICELLIKKI.LE.G.JGG TO 5.55	963733
	IF (NN. GT. NNAX - 21GO TO 645	25 37 4
	TLUMPRIPHERY ACIDI IN 222	363750
	ARRAY(NW +1)=CELL(KK)	16375
	IFIL.NE.1.09.KK.NE.31GQ TO 653	163777
	ARRAY (NH +2) = 10F	16374
	MMAMMAT AND	253790
542		65390
683	M### # + \$	643

685 CONFINUE 263515 IF (NW.LE.NMAX) ARRAY (NH) = 0 163425 NHEWH+1 26 3A 32 00 690 I=1,42 163943 690 GFKILL(I)=0. 163850 TSTART=0. 063863 163473 163850 NPOP UP =0 00 700 KK=1.7 N=NPOP(KK) 163890 IF (N . GT . MAXPOP (KK,L)) N= MAXPOP (KK,L) 163900 IF (GFLL (KK) .GT. 0 .. AND .N .GT. NPOPUP) NFOFUF=N 363313 ACKILL (KK, 1) = 0 363920 SA(KK)=SA(KK)-CELL(KK)

IF(KK.EQ.3.AND.IDF.EQ.1.AND.L.EQ.1)GO TO 700 163930 163943 163951 163960 ISTART =TSTAFT +CELL (KK) 700 CONTINUE TNOW=TSTART 153970 BEGIN LOOP TO FLY THE CELL 053943 263990 IF (NPOPUP.EQ. 0) NPOPUP=1 264202 00 1031 N=1. NEOPUP 164010 FOF= 0. 164123 00 718 T=1.42 064030 ADD= (ELHT(I,J) -OPAV(I,J)-GNCLOS(8,I,J))-FFS(I,J) 064340 TF(I.T.13.AND.I.NE.3)ADD=Q.
IF(J.ED.1.AND.(I.ED.24.0°.I.EQ.25.OR.I.EQ.33.0P.I.ED.34.04. 054050 164160 I.EQ.3511400=0. IF(J.EQ.2.AND.(I.EQ.14.09.I.EQ.20.09.I.EQ.37.09.I.EQ.41))A00=0. 164173 254280 FDF=FCF+400 36409C 710 CONTINUE 364100 AO ASSESSMENT AGAINST A/C 364110 364120 364130 IF(KK.ED.3.AND.IDF.EG.1.AND.L.ED.1) GO TO 740 If(L.EG.2.AND.(N.GT.MAXFOF(KK,L).OR.N.GT.NFOP(KK)))GC TO 743 354140 254150 IFIL .EQ.1.AND. (M.GT. MAXPOP(KK, L).OR. (KK.LE.4.ANG.N.GT.NPOP(KK)))) 36416C 16417: -GO TO 740 364140 IF ((CELL (MK) - AC MILL (KK. 1)) . LE. 0.) GO TO 140 364190 1542C: AKILL=1. SKILL=1. 164213 K#KK+55 364223 00 720 II=1.12 364235 I=II+30 154243 IF(J.EQ.1) ITYP=18A40 (II) 164 250 (II) OHAPI = TYPE I (S. C3. L) TI 354263 PKILL(II)=1. 6427 IF(ITYP.LE.J) GO TO 729

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	?P43=1	35429
	IF (I .F7. 36. ANO. J.EQ. 1) IPAC=2	16430
	IF(I,EQ.38) IP40=2	06431
	IF (I .GE. 39) IP AG=3	16432
	IF(I.EG. 33.ANG. J.EG. 1) IPAC=3	36433
	ELS=ELMT (I,J) -GNOLOS (9,I,J)	36434
	IF(PAS(TPAS) = (ELMT(I, J) = OPAV(I, J) = GNGLOS(F, I, J)) + LE+G+JGO TO 720	36435
	\$*1. ~F\$\$ F(J) ~\$FACT(II,J)	26436
	If (\$.LE, .2) S= .2	16437
	EXPERAD (PAD) + (ELAT (I, J) + OPAV (I, J) - GNCLOS (8, I, J)) +TMACK (ITERAN)	15438
	IF (I.EQ. 37.ANO. J.EQ.1) EXP=EXP+.7	164 39
	IF(I.EQ.37.ANO.J.EQ.2) EXP=EXP*.7	C54+0
	IF(I.ED.34.AND.J.ED.2) EXPMEXP*.7	36441
	IF(I.EQ.38.AND.J.EQ.1) FXP=EXP+.7	16442
	IF(I.EQ.I7.ANG.J.EQ.IA.ANC.IPQUNT.EQ.2)EXF=EXP/I	36443
	IF(T.E), 36.ANC.J.EQ.IA.AND.IMOUNT.EG.Z.ANC.J.FQ.1)EXP=EXP/3.	:5444
	IF(J.EQ.1.ANO.1I.GE.35.ANC.I.LE.38))	25445
	EXP=EXP=PCNSH(J)	36446
	IF (J.EG. Z.ANG. (I.EG.37. OR.I.EG.39))	15447
•	EXP*EXP*PCNS#(J)	35445
	AQ#1.	16449
	if{j.eq.1.and.i.ge.35.and.i.le.37}ad=agq(I-34.kk}	05450
	IF(J.Eq.2.ANQ.I.GE.37.ANQ.I.LE.38)AG=ACG(I-33.KK)	<u> </u>
	EXDe EXDe VO	16452
	<u>exp= exp= heapg (ktrl) = 5 = . 9 = (cell kk) = 4 ck l (kk - 1) / Thch)</u>	36453
	PF(II)=PF(II)=(1EXP/ELS)	16454
	SHTS (II) =SHTS (II) +EXP	_36455.
	IFISSKIII, J, IR)/ (CELL (KK) -ACKILL (KK .1)) .GE-1.1GO TO 720	35456
	PKILL(II)=(1SSK(II.J.IP)/(CELL(KK)-AGKILL(KK,1)))EXP	35457
	SKILL=SKILL+(1PKILL(II))	35458
	AV3 + (LATT) VSTONE	_ 16459
	AKILL=AKILL=PKILL(II)	36463
	PHS4K=1.	35461
	IF(J.EQ.1.ANQ.I.GE.35.ANQ.I.LE.38) PNS MK=1(1PCNS M(L))/2.	16462
	IF(J.EQ.2.AND.I.GE. 37.ANC.I.LE.391@NSHK=1(1@CNSM(L))/2.	36453
	ACLOST (KK)=11AKILL) (CELL (KK)-ACKILL (KK,1)) + BNSYK	35464
	IF (BCKILL (KK, 1) +ACKILL (KK, 2) +ACLOST (KK) . GT. CELL (KK)) ACLOST (KK) =	35465
1	CELL (KK) -ACKILL (KK, 1) -ACKILL (KK, 2)	36466
	APPORTICN LOSSES	36467
	00 730 II=1,12 IF(PKILL(II).GE.1.)GO TO 730	75469 75469
	IF(IAJ(II).E9.J)G0 70 260	16472
	I=II+30 I=II+30	36471
	FRAC = (1 PKIL L (II)) / SKILL	35472
		35473
	AIRLOS(II,KK,L)#AIRLOS(II,KK,L)+ACLOST(KK)+FRAC AIRLOS(13,KK,L)#AIRLOS(13,KK,L)+ACLOST(KK)+FRAC	35474
	accsen(r)=accben(r)+acr(21(4K)	36475
	CONTINUE	36475

ACKT LL (KK. 2) = ACKTLL (KK. 2) +ACLOST (KK) 364773 664790 ACLOST (KK)=J 164790 CONTINUE A/C ASSESSMENTS AGAINST GROUND FORCES 354900 00 880 I=1.42 364813 IF(ELMT(I, J) - OPAV (I, J) - GNOLOS (6, I, J) . LE. G. 1GO TO 860 46462G IFILEO. IA. AND. IMOUNT. EO. Z. ANC. I.LT. 16) GO TO 981 364433 064840 TF(J.EG.2)GO TO 750 164850 264553 164472 154880 16489C 36498C 2 798,790,830,500,500,600,680,790,790,790,880,790).1 16441? 760 I"GT =1 IF(J.EQ.1.AND.I.EQ.19.AND.IAFHOR.NE. "Y")GC TO 915 164923 164930 GO TO 520 778 ITGT =2 364940 164950 60 TO 420 790 ITGT =3 254972 GO TO 320 35498C 790 I*GT=4 164990 GO TO 82 800 ITGT =5 065300 60 TO 620 810 I GT = 6 265013 355020 16503: GQ TQ 920 815 ITGT =7 065040 365050 820 AHKT LL=1 055060 SHKILL=0. VICT IM=ELMT(I,J)=OPAV(I,J)=GNOLOS(3,I,J) VICTIM=VICTIM=V(IVIS)=PSN(IENGAG,JPSN,Z)=PCNSH(J) 065070 165282 IF(J.EQ. 2.AND.I.EC. 39) VICTIM=VICTIM-.125 365390 365130 00 843 KK=1.7 PHKILL(KK)=1. IF(N.GT.HAXPOP(KK.L))GO TO 540 765113 765123 IF ((CELL (KK)-ACKILL (KK. 1)).LE.g..JR.N.GT.NPOP (KK))GC TO 840 DO 830 ITYP=1.8 065130 065140 IF(POPORO(KK, TYP).LE.0.)GQ TO 430
POU31=PK(INCEYS(1,ITGT.L.ITYP.J.2, 7,2.0))
PRO32=PK(INCEXS(2,ITGT.L.ITYP.0.2, 7,2.0)) 965150 165160 965179 IF(J.EQ.ID) PROB1=PROB1+2. 365150 IF (J.EQ. IA) PROSZ=PEG82+2. P=03=(=091+PROS2)/3. 355198 365230 IF (PROS/VICTIM.GT.1.)GO TO 830 CODE XO=(CELL(KK)-ACKILL(KK,1))-POODAD (KK,ITYP) 365210 055220 165230 ROUNOS=0P0EXP*SH*(1.-(1.-FCNS*(L))/2.)
ROUNOS=ROUNDS*(ELMT(I.J)*CPAV(I.J)*GNCLCS(9.I.J))*FPS(I.J)/FDF 165240

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	SHOTSV(ITYP+35,L)=SHOTSV(ITYP+35,L)+RCUNC3	36525
	IF(ITYP.LE.4) ROUNDS=ROUNDS+.8	36526
	T2NG = TR	16527
	IF(ITYP.NE.1)IRNG=IR+10	16529
	CHECK FRIENDLY BARFAGE	35529
	FARD=DUST(JVIS,IPNG.2)	05530
	TF(ARG(J).LT.84.)FARG=DUST(JVIS, IRNG.1)	36531
	IF(\$#2(J).LT.21.)F# #C=1.	16532
	CHECK THREAT BARRAGE	26533
	T4RD=DUST(JYIS,I*AG.2)	16534
	IF(RRO(L).LT.A4.)TARG=OUST(LVIS.IPNG.1)	26535
	IF(ARO(L).LT.21.) TARE=1.	36536
	USE DONI NANT EFFECT	15537
	ACUST=FAFO	25538
	IF(TAFO.LT.FAFO)AJUST=TARO	25539
	4757e7 .	36541
	IF(ITYP.LE.4) AGORT=1. ADUST	05541
	DEGRALE FOR FALSE TAPGETS	06542
	If(L.EQ.1)490FT=480FT *.7	26543
_	TF(L.EQ. 2) ABORT=ABORT 3	3 65 44
		25545
	ROUNDS=4 BORT CROUNDS	35546
	PHKILL(KK)=PHKILL(KK)+(1P#09/VICTIM)+*P (UNDS	26547
930	CONFINUE	55545
	AHKI LL=AHKILL + OHKILL (KK)	36549
	SHCLL=SHCILL +(1PHCILL(KC))	36550
340	CONTINUE	35551
	VKILL=(1AHKILL) *VICTIM	J 6552
	IF(GNCLOS(3.I.J) + VKILL.GT.ELMT(I.J) + OPAV(I.J)) VKILL=ELMT(I.J) +	26553
	10PAV (I,J)-GNCLOS(8,I,J)	06554
	IF(VKILL-LE01)GO TO 890	16555
	APP OPTION LOSSES	3655
	CC 978 KK=1.7	06557
	IF(PHKILL(KK).GF.1.)GO TO 879	~~~ ~~ ·
	GIS=1.	16559
	FRAC=(1PHKILL(KK))/SHKILL	3655
	IEL=1	36561
	IF (I . EQ. 3) GO TO 450	26562
	GNOLOS(Kk,I,J)=GNOLOS(KK,I,J)+VKILL*FFAC	06563
	GNOLOS (8. I.J) =GNCLOS(8, I.J) +VKILL+FRAC	35554
	GFKILL(I)=GFKILL(I) *VKILL=F FAC	26555
	IF(I.LT.13)G0 TO 972	35556
	GNOLOS (KK, 2. J)=GNOLOS (KK, 2. J) + VKILL + CRENS(I-12. J) +F+ AC	16567
	SNOL 05 (4.2.1) = GNOLOS (4.2.1) + VKILL+ GREWS (1-12.1)+ F7AC	36564
	GFKILL(2)=GFKILL(2)+VKILL+CREWS(I-12.J)4FRAC	06569
	IF(I.LT.21.0R.I.GT.25.0R.INOUNT.EQ.1.C3.J.EQ.ID)GC TC 870	0.557
	GIS* 6.	1657
	7 EL * 3	3 45 7 2

850 20 960 IMPOLEL-12 165733 GNOLOS (KK, IMP. J) = GNCLOS (KK, IMP. J) + V #ILL + G IS+ OLT (IMP) + FRAC 365740 GNOLOS (A. THP. 1) = GNOLOS (A. THP. 1) + VKILL +GIS+PLT (THP) + FRAC 165750 GFKILL (IMF) #GFKILL (IMP) +VKILL*GIS*PL* (IMP)*FRAC 16576: 960 CONTINUE 165770 870 CONTINUE 365730 BAG CONTINUE 165791 165411 DO 890 KK=1.7 ACKILL(KK,1) = ACKILL(KK,1) +ACKILL(KK,2) 355510 ACKILL (KK. 2) = 0 065433 ACLOST (KK) = 0. 36544: IF(<u>KK.EQ.3.4NO.TOF.EQ.1.4NO.L.EQ.1)GG TO 890</u>
TNOW=TNOW+(CELL(KK)-ACKILL(KK.1) 365463 890 CONTINUE 565 970 CHECK A/C LOSSES FOR ABORT Ç 165880 900 NN=4 365890 IABORT=0 165940 I TOUR SE SISTART - 7. AND NN. NE. NPOPUP)GO "O 1333
IF (IN. EQ. NPOPUP)GO TO 920
PRINT - "LOSSES EXCEEJ 30% AFTER ", NN. " FCPUPS"
IF II RUN. EQ. 1. OR. IRUN. EQ. 31GO TO 910 055910 165929 165930 365943 IABORT=1 255950 GO TO 930 910 PRINT - "SORTIE ABORTED" GO TO 930 365960 155970 265982 920 PRINT *, NN. * POPUP SCPTIE COMPLETED. 155990 266300 CALL REECA(INX)

IF(INX.EQ. "Y")GO TO 940

IF(INX.EQ. "N")GO TO 1010 166122 166333 GO TO 930 155140 940 POINT 950,KIND(L)
950 FORMAT(//"", 44," HELICOPTERS KILLES"/" 366450 356060 · KILLED" 00 978 KK=1.7 366373 366340 IF (ACKILL (KK.1) .LE..1)GO TO 973 156090 K=KK+58 POINT 960,K, ACKILL(KK,1) 16610: 968 FOPHAT (" ", 3X, 12, 184, F5.1) 156113 970 CONTINUE
PRINT 980,KINO(J)
980 FORMAT(//" ".A4." GROUND FORCES KILLEC"/" 366120 356133 # KILLE?"1366140 00 1000 I=16.42 IF(SFKiLL(I).LE..1)GO TO 1000 PPINT 990.I.GFKILL(I) 990 FORMAT(" ".3X.IZ.11X.F5.1) 166150 256163 056173 166190 166190 1000 CONTINUE :562C: 1010 IF (I ABORT. EQ. 3) GO TO 1040

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	PRINT 4, TOO YOU WISH TO ABORT THIS SOFTIE? T	<u> 466 213</u>
1020	PRINT +, "SORTIE ABORTED"	366223
<u> </u>	GO TO 1040 '	166230
	CALL SEEDA(INX)	366240
	IF(INX.EQ. TYT)G0 TO 1040	366253
	IF(INX.EQ."N")G0 T0 1030	366260
	GO TO 1020	365273
1030	CONTINUE	356290
1040	IFIL .EQ. 2160 TO 1049	156290
	IF (CELL(3) .EQ.QOR.CELL(4) .EQ.Q.) GO 1042	366333
	PRINT . "THIS CELL HAS MIXED AN TYPES"	366313
	GO TO 1049	366 32:
1042	IF (DELL(3) -LE . 0 . 160 TO 10 44	366333
	N13=N13+1	366 343
	INC= (N13-1)-4+11	166350
	KK*3	066 360
	GO TO 1046	166 37:
1044	IF(GELL(4).LE.0.160 TO 1349	166391
• • • •	N14=N14+1	356393
	ING= 91 -N 14*4	3 66430
	KK**	366413
1 046	AH([NC)=KK+10	956423
•••	AH (INC +1) =CELL (KK)	066430
	AH (INC+2) = CELL (KK) - SCKILL (KK,1)	356441
	DIV= AH (INC+2) +4CKILL(KK.1)/:	166450
	IF(DIV.LE.Q.) GO TO 1946	266460
	RCS=RGS/CIV	356475
~	AH (INC+3)=AH (INC+2)=EDS	156490
1048	AH(101=N13+N14	366490
10 4.7	IF(BH(10).LT.20.)GO TO 1049	166500
	PRINT 4, "NO MORE BLUE CELLS CAN BE FLOWN IN THIS SECTOR."	066510
	GO TO 1960	156520
1.160	PPINT 1050, KINC(L)	156537
1050	FORMAT(" DO YOU HISH TO FLY ANOTHER CELL CF ". A4." A/C? ")	356545
10 90	CALL PEECA (INX)	165550
	IF (INX.EQ. "Y")GO TO 440	266560
	IF(IN>.EQ. "N")GO TO 1060	356570
	GO TO 1040	7565 30
4 06 0		166590
	CO 1070 I=31,42 FPS(I,J)=FPS(Y,J)/HEIGHT	166603
10/3		365513
	00 L090 I=1,15 IF(GNCLOS(8.I.J).LE.ELMT(I.J)*OPAV(I.J))GC TO 1090	15652
		365632
	IF (6 NCLOS (6, T. J) .LE. 0. 160 TO 1390	366640
	CO 1080 KK=1,7	
1000	GNOLOSIKK,I,J) = [GNCLOS(KK,I,J)/GNOLOS(8.I,J)) + ELMT(I,J) + OFA/(I,J)	356650
	GNOL OS (8.I.J) #ELMT(I,J) *OPAV(I,J)	066660
	CONTINUE	366673

CO 1110 K=59.55 KK=K-59 <u> 166690</u> 366730 GNOLOS(KK.I.J)=IFIX(GNOLOS(KK.I.J)=10.+.5)/10. 16671: 16672: ALOSS (K, I) =ALOSS (K, I) +IFIX (GNCL (S (KK, I, J) = 10 . + . 001) +PACK (J) IF(I.LT. 31)GO TO 1110 16673¢ 1100 II=I-30 95674C AIRLOS(II.KK,L)=IFIX(AIPLOS(II.KK,L)+10.+.5)/10. ALOSS(I,K)=ALOSS(I,K)+IFIX(AIRLOS(II,KK,L)+10.+.3C1)+FACK(L) 166750 166761 ALOSS(I, 2)=ALOSS(I, 2) + IFIY(AIRLOS(II, KK, L) + CREWS(K-12, L) + 10 . +. JJ1) 266773 1-PACKIL) 2567AC 1118 CONFINUE 056790 066800 IF (ACCREM(L).GT.ELMT(2.L))ACCREM(L) =ELMT(2.L) GU TO 1140 1120 PPINT 1130, KINO(L) 1130 FORMAT(" THE ", AG, " FORCE HAS NO HELICOPTERS") 056310 366420 066 430 1140 CONTINUE 366840 IF (IRUN. EQ. 1) 50 TO 1288 <u> 166850</u> PRINT . "CISPLAY LOSSES? 366460 CALL REEDA (IYN)
IF (IYN.EQ. "N") GO TO 1280 66975 156 450 PRINT 1150 1150 FORMAT("1") PRINT -, ---266 89ü 266907 366913 -----AH/AD ASSESSHENTS-----PRINT 1160 FORMAT (" I",34x,"I") CO 1279 J=1,2 16692: 366930 056945 IFLAG=0 366950 00 1260 1=1.65 J6696C IF(I.GE. 43.4NO.I.LE.56) GO TO 1268 356975 CLOST=0. 35695C IFII.LT.19.AND-1.NE.131GO TO 1170
IFII.GE.59.AND-1.LE.651GO TO 1250 166990 357030 CLOST=GNCLOS(8, I, J) +CPEWS(I-12, J) 367313 1170 AKILL=IFIY(GNCLOS(8.I.J)*10.+.5)/10. 36702: IF(I .EQ . 2) AKILL AKILL ACCREM(J) <u> 167130</u> 1180 IF(AKILL.LT..1.AND.CLCST.LT..1)GO TO 1250 367343 IF(IFLAG.GT.0)GO TO 1210 157350 Ĵ6706C IFLAG=1 IF(J.EQ.21GO TO 1191 DEFUT A. MT TOTAL BLIE LOSSES 157575 I" PRINT . 367380 GO TO 1230 167090 1190 PRINT *."I 1200 PPINT *,"I PRINT 1160 TOTAL REC LOSSES 257123 ITEM PLOST CREW 16711 06712: 1210 | F(I.LT.15.ANC.I.NE.13)GO TO 1230 | PRINT 1220, I, AKILL.CLOST | 1220 | FCMATI" | 1".9x.12, F9.1, F7.1.7x."| 367130 067143 267153 GO TO 1260

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067170 067190 067290 1230 PRINT 1260, I, AKILL 1240 FORWAT (" I", 9x, 12, F9.1, 14x, "I") GQ TQ 1260 1250 CLOST=4IFLOS(13,I-59,J)*CFEHS(I-12-J) AKILL=IFIX(4IRLOS(13,I-58,J)*10.+.5)/10. 057210 967229 GO TO 1190 067230 067240 1260 CONTINUE IF (IFLAG. NE. 0) PRINT 1163 957250 C6726 3 67273 1270 CONTINUE 067280 167291 167300 1200 IF (IRUN.EQ.1) PPINT +, "AN/AC ASSESSMENTS PRINTED HERE" INX= 0 367315 CALL LOSS(59.55.1.42.INX)
CALL LOSS(31.42.59.65.INX)
IF(INX.EQ.~NO~)GO TO 1290 067320 057332 267341 067350 367360 CALL CKSTOR (AH1, ISUT) AH1="CI AD" 067374 CALL CKSTOR (AH1, IGUT) 367390 00 1295 I=1.12 INC=11+(I-1)*4 167390 067400 AH(INC)=PF(I) AH(INC+2)=SHTS(I) C67410 36742: 1255 CONTINUE CALL CKSTOR (AH1, IPUT) 367439 367443 367450 I PIJT = -1 167460 AH1="INPUT 5"
CALL CKSTOR(AH1, I FUT) 167470 00 1297 1=11, 98 1287 AH(1)=ARRAY(I) CALL CKSTOR(AH1,IPUT) PRINT 1150 367490 357502 367512 157522 067533 1290 END

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SUBROUTINE POST 271973 IS THE EXECUTIVE ROUTINE FOR THE JIFFY GAME DUTPUT PROCESSOR 372335 THE TYPE OUTPUT TO BE GENERATED IS SET ALONG WITH THE AFPROPRIATE PARAMETERS AND THEN SUBROUTINES TAKE OVER TO ACTUALLY ACCUMULATE 07 23 15 172123 THE DESTRED GAME DATA AND CREATE THE OUTPUT FILE. 372330 272940 372050 SUBROUTINES FOR POSTPROCESSOR FOLLOW IN THIS DROER: 272260 ZERGES OLT A PRAYS . VAFTABLES XQUT & RETREIVES "CI NAMES" RECOPOS: SETS VARIABLES 372370 GITNMS : RETREIVES WAN LOSS & BONG AFFAYS
STINU CEPTING OF ALL CONTINUES ACCUM! 372390 COMMITE COMPUTES "TOTAL" ARRAY SUNTOTI 272100 FILLS VARIOUS LOSS ARRAYS SUMUPE HEADERI CREATES OUTPUT HEADING 272122 CALLS ROUTINES WHICH GENERATE ACTUAL OUTPUT 372133 REPORTE RECVEYS CREATES LOSS & CAMAGE DISTRIBUTION DIS CREATES LOSSES BY SCURCE OF LOSS TABLES 072150 KILCATE 10. CREATES AMMUNITION EXPENTITURES TABLE CREATES WILLEP/VICTIM PATRICES 372169 BULLETE KILVICE 072179 OPTICNAL LER'S GENERAT TO INTERACTIVELY 072180 OPTLER! CREATES PATIO STATISTICS OUTFUT 372190 RATIOSE 14. CAUSES PRINTER TO PAGE: WRITES BRIEF PAGE MEADER GENERATES CHRONOL. STATS FOR FART. OR FULL GAME DUTPT NEWPAGE 372230 TRACES 972217 372223 172246 COMMON IA. IJ. IP. IENGAG. ITERRN. IVIS, INCUNT, MINES, CFOP, FSFPS, FOR, 272250 ATTHE, IFTRST, TRUM, NORD, FMASS, IMAXKY, SF(2), FSSF(2), PACK(2), 272263 372270 ELAT (90 .2) . ALOSS (66.66) . SHOTS (55.2) . CKILL (53.2) . SHOTS (55.2) . COMMON/9 EED/J7A Y1 . X INX (4) . ICARO (20) . I AR PCR 272240 172294 COMMON/DATA/FPS(80.2),CFEMS(53.2),AFOS(12),DPOS(6),ITMER4(23,2)
1 PSW(6,2,2),PLT(15),KEY(171) 272333 072313 COMMON/ONE/LFIT(35), APRAY(90), YYBUF(1024), 0(80.2), AGI, ASCENE, ASEC COMMON/THREE/IHIST(39), AH(90), IYBUF(1024) 7172323 372330 COMMON/OUTPT/CCI(2). IOUT, KIND (2). TO TAL (3,2,2). BEGIN (65,2), NGIL 372340 NCI2.CATLOS(65.13.21,CATSUM(11,2),TYPE(5),3RIG(10.10), N9FIG 172353 172369 INITIALIZATION *** 17237: 172399 TYPE (1)="CHE SECTOR" 072393 TYPE (2)="PORTIAL CI 172433 (4) = "PART . GAME" 17:425 TYPE (5)=" FULL GAME"

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CALL XOUT(1) XCI=AGI XSECT=AS ECT IOUT=1 IF(XSECT.EQ.0.)IOUT=3 IF(XCI.EQ.0.)IOUT=5 IF(IRUN.EC.3.QR.IRUN.GE.6)GO TO 210 IF(XSECT.EQ.0.)GO TO 140	37246 37245 17246 37247 37248
XSECT=AS ECT IOUT=1 IF (XSECT.EQ.0.) IOUT=3 IF (XCI.EQ.0.) IOUT=5 IF (IRUN.EC.3.OR.IRUN.GE.6)GO TO 210 IF (XSECT.EQ.0.) GO TO 140	37247
IOUT=1 IF(XSECT.EQ.0.)IOUT=3 IF(XCI.EQ.0.)IOUT=5 IF(IRUN.EC.3.GR.IRUN.GE.6)GO TO 210 IF(XSECT.EQ.0.)GO TO 140	
IF(XCI.EQ.Q.) IOUT=5 IF(IRUN.EC.3.OR.IRUN.GE.6)GO TO 210 IF(XSECT.EQ.Q.)GO TO 140	37248
IF(IRUN.EC.3.OR.IRUN.GE.6)GO TO 218 IF(XSECT.EQ.0.)GO TO 140	
IF(xSECT.EQ.0.)GO 70 140	37249
	17250
	17251
	27252
100 PRINT 110.XSECT.XCI	97253 "? ") 97254
110 FORWAT(" SECTOR OUTPUT FOR SECTOR ".F6.3." OF CL ".A13.	17255
120 FORMAT(A1)	07256
IF(IYN.EQ."Y")GO TO 220	G 7257
IF (I YN.EQ. "N") GO TO 140	17258
PRINT 130	J7259
130 FORMAT(" MUST BE Y OR N ")	27260
GO TO 10G	37261
	17263
140 PRINT ", "SELECT GUTPUT OPTION (0 IF DONE) - "	97263
CALL REEDA	17264
IQUT=XINX(1)	07255
IF(IOUT.EQ.0)GO TO 230	37256
IF (I OUT. GE. 1. AND. TOUT. LE. SIGO TO 173	07267
IF(IOUT.EG.999)GO TO 160 PRINT 150	17268 17269
150 FORMAT(" INCORREC" ENTRY ")	37270
PRINT . "LIST OPTIONS? "	17271
CALL REEDA (IYN)	17272
IF(IYN.EQ."N")GO TO 140	37273
160 PPINT . " INPUT OUTPLT CREATED "	17274
PRINT ." 1 SINGLE SECTOR "	17275
PRINT +, " Z PARTIAL CI (NUL TIFLE SECTOR) "	
PRINT +," 3 FULL CI "	97277
PRINT -, " 4 PARTIAL GAME (ALLTIFLE CI) "	37279
PRINT 4, " 5 FULL GAME "	17279
60 10 141	37290 37291
474 TE/TOUT EA LICA TO 200	17282
170 IF(IOUT.EQ.4)GO TO 200 IF(IOUT.EQ.5)GO TO 210	17293
PRINT P. "CI NAME- "	372 94
CALL PEEDB (ACI)	67295
180 FORMAT(410)	07296
ASECT=0.	372=7
IF(IQUT.EQ.3)GO TO 220	.728
PRINT +, "SECTOR #- "	17289
190 CALL REECA	37293
A SECT=XINX (1)	17391

IF!IQUI.EQ.1)GQ TO 220

WRITE(70,*)ASECT

IF!ASECT.EQ.1.1GQ TO 220

PRINT *, "NEXT (0 IF DONE)
GQ TO 190

200 PRINT *, "OUTPUT FROM CI
CALL **PECB** (CCI(1))

PRINT *, "THROUGH CI
CALL RECB** (CCI(2)) 372930 37294: 372950 17296: 372973 172982 973000 373010 *** BEGIN CALLS TO SUBROUTINES WHICH CREATE FILE *** 073020 373030 373340 373350 210 IF(IOUT.GT.3) CALL GITNMS 220 CALL ACCUM CALL HEAGER 173169 CALL REPORT
CALL XOUT(1)
IF(IPUN.EG.3.CR.IRUN.GE.6)GO TO 230 173271 37309C 273392 GO TO 140 230 ACT=XCI ASECT=XSECT 073100 373110 37312C IFIRST =0 373133 END G73143 M-191

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SUBRQUITHE XQUI(NEL)	0,7315
	37317
<u> </u>	GG 17318.
	273191
A ROUTINE TO ZERO OUT ALL ARRAYS USED TO GENERATE AN OUTPUT	C732C
FILE. IT IS CALLED BEFORE ANY OUTPUT IS CHEATED.	07321
	07322
Симинимими ками нимам имини каниний кильтичниций каниний и из «Малиний и из «Малиний и из «Малиний и из «Малиний и и	MM37323:
	17324
COMMON IA, ID, IP, IENGAG, ITERRN, IVIS, IMCUNT, MINES, CFFF, FSFPC, FPC,	27325
1 ATIME, IFIRST, IPUN, NOPO, FHASS, IMBXKV,	17326
2 SF(2),FSSF(2),PACK(2),	27327
3 ELTT(80,2).ALOSS(66,66),SHCTS(55,2),CKILL(53,2),SHOTSV(55,2)	27 328
COMMON/QATA/FPS(80,2),CREWS(53,2),AFOS(12),CP9S(6),ITHE=#(20,2).	07320
1 PSN (6,2,2),PLT (15),KFY (171)	373391
COMMON/ONE/LFIT (35) . ARR AY (90) . YYBUF (1,124) . D (30,2) . ACI . ASCENE, ASE	CT 17331
COMMON/THREE/IHIST(35),AH(90),IYBUF(1024)	47332
COMMON/OUTPT/CCI(2) .IOUT. KIND(2) .TGTAL(3,2,2) .BEGIN(65,2) .NCI1.	27333
* NCI 2.CA TLOS (65.13.2) .CATSUM(11.2) .TYPE(5).3KIG(17.10) .NGRIG	27334
00 153 /=1.2	37375
00 110 T=1,65	27336
CO 100 K*1.13	27337
CATLOS(I,K,J)=0.	C7334
100 CONFINUE	07339
ELM (1,J)=0.	07340
BEGIN(I. J)=0.	0.7341
O(I, J) = 0.	37342
110 CONTINUE	- 37343
	17344
00 120 II=1,3	
CO 120 KK=1,2	07345
TOTAL(II,J,KK)=0.	273460
120 CONTINUE	
CO 130 N=1.11	7344
CATSUM(N,J)=1.	17349
130 CONTINUE	27350
00 140 I=1,55	37351
SHOTS(E, J)=0.	47352
140 CONTINUE	17353
IF INFL. GT. 11GO TO 150	37354
Cri(J)=0.	17355
150 CONFINUE	37355
CO 160 K=1,66	373=7
00 160 I =1,65	J7354
ALOSS(K, I)=7.	37359
160 CONTINUE	97369
IF(NFL.GT.1)GO TO 150	07351
CO 170 I=1.90	37352
AH(I)=0.	:7363

173 CONTINUE NCI1=0 NCI2=0 180 PETUPN ENO 273640 273650 173660 373670 273640 0 0 J M-193

	SUBROUTINE GITHMS	37378
		3737
GGGG	<u> </u>	30737
		2737
	HIS ROUTING RETREIVES THE "CI NAMES" RECORD FROM THE HISTORY	37374
	ILE AND STORES IT IN "ARRAY". INCEXES NO 11 AND NOIZ ARE ALSO SET	
F	OR THE TYPE OUTPUT TO SE GENERATED.	37376
		37377
HHHH	<u>PRIME NA NA NANANANANANANANANANANANANANANANA</u>	0737
		07379
	COMMON IA.IO.IP.IENGAG, ITERRN, IVIS.IMCUNT.MINES.CFPR.FSFPR.FPR.	3738
1	ATIME, I FIRST, IRUN, NORD, FMASS, IMAXKV.	3735
2	SF(2),FSSF(2),PAGK(2),	0739
	EL4T(90,2),ALOSS(66,66),SHOTS(55,2),CKILL(53,2),SHUTSV(55,2)	3734
	COMMON/DATA/FPS(80.2).CREHS(53.2).AFOS(12).JPOS(6).ITHE= # (23.2).	3739
	PSN (6,2,2), PLT (15), KEY (171)	3734
	<u>common/one/lfit(35).array(90).ayauf(1024).o(80.2).aci.ascene.asec</u>	73739
	COMMON/THREE/IHIST (35), AH (90), IYBUF (1024)	1738
	COMMON/OUTPT/CCI(2), Inut. KING(2), TOTAL(3,2,2), BEGIN(65,2), NCIL.	3739
•	NCT 2, CATLOS (65,13,2), CATSUM(11,2), TYPE (5), PRIG(10,10), NEFIG	0735
	CALL OPENMIHIST, 3LI-0,1L2)	2739
	AH(L)="CI NAMES"	3739
	A P (%) =99999.	0739
	CALL GET (IHIST,AH,AH(1),0,10)	3739
	CALL_CLOSEM(IHIST)	3739
	IF (8 H(4) . NE. 99999.)GO TO 100	77399
**	ERNOR_PESSAGEPECORC_NO T FOUND	37396
	PPINT +, "NO CI NAMES RECORD FOUND ON HISTORYFILE."	3739
		17398
	IOUT =0	3739
	60 TO 200	0743
**	P TRANSFER FROM AM TO ARRAY	0740
	0 11 I=4,90	3740
	ARRAY(I) = AH(I)	3743
	CONFINUE	3746
	IF (I OUT. E9.5) GO TO 160	37405
**	PARTIAL GAME OUTPUTFINE SPECIFIED CI'S: SE" NCI1, NCI2	27431
		27401
	00 120 1=4,90	3743
	IF(A RRAY(I).EQ.CCI(1))NCI1=I	37439
	IF (ARFAY (I) . EQ.CCI(2)) NCI2=1	3741
	CONFINUE	3741
	IFINCIL.NE. G. AND.NCIZ.NE. () GO TO 140	3741
	IF(NC11.EQ. G) PRINT 130,CCI(1)	1741
	IF(NC12.EQ. 0) PRINT 130.CC1(2)	3741
	FORMAT (" CI ", A10." NOT ON RECORD FOR THIS GAME.")	2741
	I OUT =)	3741
	GO TO 200	2741

160 IF (NCILLE NCI2) GO TO 200
PRINT 150, GCI
150 FORMAL (" CI ".ALL." COMES AFTER CT ".ALG." IN GAME"/ 07419: 7421 - " GORGECTION HACE.") 074213 574223 NN=NCI1 NCI1 =NCI 2 37423C NCI2=NN 37424: HOLD=CCI (1) 374250 CCI(2)=CCI(2) 074263 174275 174295 GO TO 200 374290 FULL GAME OUTPUT -- SET NCIL. NCIZ. CCI(1). CCI(2) 07430r 274312 160 NCT1 =4 374320 00 170 I=4,89 174330 IF(ARRAY(I+1).NE.C.)GO TO 170 174342 NCIZ=I :74350 GO TO 189 37,4360 274370 NCIZ=90 274380 180 CCI(1) =ARRAY(NCI1) 37439C 374430 274410 CCI(2) =ARRAY(NCI2) IF(NCI2.GT.4)GQ TO 193 -- ERROR--AT MOST ONE CI NAME ON RECORD (NO GAMING) --174425 :7443: PPINT ", "HISTORYFILE SHOWS NO GAMING HAS BEEN COMPLETED." _17444? I CUT = 0 374453 GG TO 230 374460 190 IF (ARRAY (NCI1) . NE. 0 . . ANC. APRAY (NCI2) . NE. 0 .) GG TC 233 374473 ++ ERROR--ONE OF INDEXES NCIL NGIZ IS INCORRECT ++ 274483 274490 PRINT ", "ERROR ON RETREIVING CI NAMES" 274500 274513 I OUT = ? 200 PETURY 074523 ENO 274530

SUBROUTINE ACCUM	0.74550
	37456
<u> </u>	<u>:66666666666666666666666666666666666</u>
	174580
THIS ROUTINE FILLS THE FOLLOWING	ARPAYS FROM HISTORY FILE RECORDS: 374598
ALOSS (KILLER/VICTIM ARRAY) : B	
ELHT (ENCING WPM ARRAY): SH (TS	(AMMO EXP ARRAY) 37461:
OTHER SUBROUTINES CALLED ARE!	37462:
GITNES (GETS "CI NAMES" RECORD	: COMMIT (FINDS COMMITTED UNITS) 074630
SUMFOT (GENERATES NEEDED TOTAL	374649
	374650
y kir kiy pi ping king king king king ang ang king ki	1884 - Chaparanaharanaharanaharanaharanah
	97467
COMMON IA, ID, IP, IENGAG, ITERPN,	IVIS, INGUNT, MINES, CFPR, FS FPR, FPR, 374680
1 ATIME, IFIRST, IPUN, NOOG, FMASS.	IMAXKV, 17469:
Z SF(2),FSSF(2),PACK(2),	37470
3 ELMT (80,2) . ALOSS (66.66) . SHOTS	(55,21,CKILL (53,21,SHGTSV (55,2) 17471:
COMON/OAT4/FPS (50.2) ,CREHS (53	.21.APOS(12).CPOS(6).ITHERM(23.2). 97472
1 PSN (6.2.2) .PLT (15) . KEY (171)	37473
COMMON/ONE/LFIT (35) , A FR AY (90) ,	MYBUF(1024),3(83,2),ACI,A3CENE,A3ECT17474;
COMON/THREE/IHIST(35),AH(90),	
	2), TOTAL (3,2,2), BEGIN (55,2), NGI1, 07476
. NCT2.CATLOS (65,13,2),CATSUM (1	
IALOSS=0	27479;
TAMO Q= 0	17479
IF (I OUT. LE. J. OR. I OUT. GE. 6) GO T	
GO TO (100, 280, 310, 460, 460) , TO	UT 174A1
	17442
BEGIN FILLING APRAYS FOR SING	
	27434
++ FOLLOWING FILLS "BEGIN" AND	
	£7446
100 CALL OPENM(IHIST, 3LI-C, 1LR)	17447
AH(1)="BLUE START"	17456
110 AH(2)=ACI	374396
AH(3) = 45 ECT	17490
AH(b)=99999.	17491
CALL GET (THIST, AH, AH(1) +0 +30)	27492
IF(AH(4) .NE. 99999.)GO TO 130	174930
PRINT 120, 4H(1), ASECT, ACI	27494
	CTOR ".F6.0." CI ".A10." "GT FOUNG".37495
1 " (ACCUM)")	17496
GO TO 170	27497
130 J=1	17496
IF(AH(1).EQ."SLUE ENOT.OR.AH(1	
IF(AH(1) .EQ. "RED START") J=2	375330
70 t40 I=1,65	375311
9EGIN(?.J) =3EGIN(I.J) +A H(I+10)	17512
354941 144 -3534417191 484174111	11916

375030 375340 140 CONTINUE GO TO 170 158 IF(AH(1) .EG. TRED ENCT) J=2 175250 CO 160 [=1,65 ELHT(T.J)=ELHT(T.J)+4H(T+10) 975060 275370 160 CONTINUE 375380 IF(AH(1).EQ. "RED ENC")QQ TQ 180

IF(AH(1).EQ. "RED STAR")AH(1)="PED ENC"

IF(AH(1).EQ. "BLUE END")AH(1)="RED START"

IF(AH(1).EQ. "BLUE START")AH(1)="BLUE ENC" 175 196 075100 J75110 G75123 GO TO 110 075130 075140 ** FOLLOWING FILLS "ALOSS" ARRAY 175150 375160 175173 375180 180 TECTALOSS GT. 1160 TO 230 AH(1)="CI LOSSES" AH (2) = 46 I 275190 AH(4) #99999. 375233 CALL GFT (IHIST, AH, AH(1), 0, 22)
IF (AH(4) .NE. 99999.) GO TO 230 375213 375223 IALDSS=1 PPINT 190,AH(1),ACI 190 FORMAT(" ",A1]," RECORDS FOR CI ",A10," NOT FOUND". 175230 175240 7525: " (ACCUM)") 375263 GO TO 230 290 IF (AH(5) .NE.ASECT)GO TO 220 175273 375283 KEAM (4) 375293 GO 210 I=1,65 ALOSS(K, I)=ALOSS(K, I)+AH(I+10) 97539C 375<u>31</u> 210 CONTINUE 375323 220 CALL GETN(THIST.AM.AM(1))

M=IFETCH(IHIST.2LFP)

IF(M.EQ.1408)GO TO 230 075330 375340 375350 079360 IF (A H(1) .NE. TCI LOSSEST. OR. AH(2) .NE. ACI)GO TO 230 275373 GO TO 200 075380 -- FOLLOHING FILLS "SHOTS" ARRAY 375390 375403 231 IF (I ANYO . GT . B) GO TO 278 375410 AH(1)="TI AHHO" 375420 275432 AH (2) = 4CI AH(6) =99999. 375449 CALL GFT (IHIST, AH, AH(1) . 0 . 20)
IF (AH(4) . NE. 99999 . 160 TO 240 3,75450 C 75460 IAHMO=1 175470 275439 PPINT 190, AH(1), ACI 175490 GO TO 277 240 IF (AH(5) .NE. ASECT) GO TO 260 17551:

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J=4H (4) 00 250 I=1.55 075520 SHOF 9(I.J) =SHOTS (I.J) +AH (I+10) 075530 175540 250 CONFINUE GETNEIHIST, AH. AH (1)) 17555: ZGQ CALL M=IFETCH (IHIST, 2LFP)

IF(M.EQ.1303)GO TO 270

IF(AH(1).NE."CI ANMO".OF.AH(2).NE.ACI)GO TO 270 37556: 175570 075540 GO TO 240 270 IF(IOUT.EQ.2)GO TO 290 075593 375630 CALL CLOSEN (THIST) 275613 075623 *** SEGIN FILLING ARRAYS FOR FARTIAL CI OUTPUT *** 975640 ** USES LOGIC ABOVE (TE., FOR SINGE SECTOP) TO ACTUALLY RETRIEVE THE PECOPOS AND FILL THE ARRAYS ** 275650 0 75660 3 75675 280 CALL OPENM(IHIST, JLI-0, 1LR) 975580 RENT NO 70 375693 290 RE40 (73. *) ASECT 075700 IF(8SECT.EQ.3.)GQ TO 300 AH(L)="BLUE START" 375713 975730 GO TO 110 300 CALL CLOSEN(IHIST) GO TO 65C 375740 375750 07575: +++ SEGIN FILLING ARRAYS FOR FULL CI +++ 375775 37578: -- FOLLOWING FILLS "DEGIN" AND "ELM?" ARRAYS 17588: 310 CALL OPENM(IHIST.3 AH(1)="SLUE START" OPENM(IHIST. 3LI-0.1LP) 075810 375423 320 AH(2)=4CI 075930 AKEEP=AH (1) 375440 17545: 17546: 17547: 17544: AH(6)=99999. CALL GET (THIST, AH, AM(1), J, 20) IF(AH(4) .NE.99999.1GO TO 330 PRINT 190, AH(1), ACI 17599C GO TO 380 27599: 330 J=1 IF(AH(1).EQ."SLUE END".OR.AH(1).EQ."RFD ENO")50 TO 350 IF(AH(1).EQ."PED START")J=2 075910 17592: IF (AH(3) .LE.0.)GC TO 371 CO 340 I=1.65 375930 275940 BEGIN(I, J) =BEGIN(I, J) +AH(I+10) 175950 340 CONTINUE 175963 GO TO 370 17597 350 IF (AH(1) .EQ . "RED ENO") J=2 ;7599E

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e . 1

NO 360 I=1.65 ELMT (I,J)=ELMT (I,J)+AH(I+10) 17590 176300 176010 360 CONTINUE 370 CALL GETN(IHIST, AF, AM(1))
MRIFETCH(IHIST, 2LFP)
IF(W. &Q. 1008) GQ TO 380 375320 17603 376945 IF(AH(1) .NE.AKEPP.OR.AH(2) .NE.ACI) GO TO 380 376350 GO TO 338 176573 176385 380 IF (A KEEP.EQ. ""ED END")GO TO 399

IF (AKEEP.EQ. "KED START")AH(1)="PED ENC"

IF (A KEEP.EQ. "BLUE END")AH(1)="REC START" 176090 IF (A KEEP . EQ . "BLUE START" | AH(1) = "BLUE ENC" 276108 60 FO 320 37612: 97513: ** FOLLOWING FILLS "ALOSS" ARRAY J76145 176150 390 AH(L)="CI LOSSES" 076161 AH (2) = 4CI 376171 376190 AH(4)=99999. CALL GET (IHIST, AH, AH(1) . 0.20) <u>17</u>61.90 IF(\$H(4) .NE. 99999.) GO TO 400 17620: PRINT 190, AH(1), ACT GO TO 420 17521 076220 400 K=AH(4) 00 413 [=1.65 ALOSS (K, I)=ALOSS (K, I) +AH(I+13) 17623: 17624: 17625: 410 CONFINUE 176 260 CALL GETNITHIST, AF, AH(1)) M= TF ETCH (IHIST: 2LFP)

IF (M.EQ. 1908) GO TO 420

IF (8 H(1) .NE. "CI LOSSES" .DR. AM (2).NE. ACI) GO TO 429 176270 176283 27<u>6</u> 290 076 300 GO TO 400 176 31: 276 32: 420 AH(1)="CI AHHO" -- FOLLOWING FILLS "SHOTS" AFRAY 876330 375340 AH(Z)=4GI AH(4)=99999. 176 350 17636; CALL GET (IMIST, AM, AM(1) . 0 . 20)
IF (AH(4) . NE . 99999 .) GO TO 430 37637: 175380 176390 PRINT 190,AH(1),ACI 60 TO 450 0.7640: 37541 430 J=AH (4) DO 840 T=1,55 37642: 076430 SHOT \$ (I, J) = SHOTS (I, J) +AH (I+10) :7544: 440 CONTINUE 37645 CALL GETNITHIST . AH. AF (11) 37646 H=IFETCH (IHIST, ZLFP)

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IF(N.EQ.100B) 50 TO 630 IF(RH(1).NE.AH1) GO TO 630 175950 176960 176970 176990 176990 STO IFILOUT.EQ.SIGO TO 590 CO Sed NN=NCI1.NCI2 IF(AH(2).EQ.ARRAY(NN))GQ TO SQU 377905 580 CONTINUE GO TO 560 598 IF(AH1.ED. "CI ANNO")GO TO 610 177010 077320 <u> 177430</u> 177340 K=44 (4) DO 680 [=1,65 ALOSS(K.I)=ALOSS(K.I)+AH(I+10) 177050 177060 600 CONTINUE 377973 077390 GO TO 560 610 J=A4(4) 00 621 [=1.55 SHOTS(I,J)=SHOTS(I,J)+AH(I+10) 620 CONTINUE GO TO 560 630 IF(AH1.EQ."CI AMMO")GO TO 640 AH1="CI AMMO" 677196 677196 977166 977113 377126 377133 640 CALL CLOSEN(IMIST)

-- THIS SUBROUTINE FILLS "ELHT" ARKAY 97715: 07716: 37717: 07715: 37719: 377203 CALL COMMIT

-- THIS SUBROUTINE FILLS C. CATLOS. CATSUP ARRAYS 377210 377223 377233 650 CALL SUMUP 660 PETURN ENO 177242 M-201

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An A

SUBROUTINE COMMIT .	377260
	377273
<u> </u>	G377293
	377290
A POUTINE WHICH SUMS THE MPNS REPAINING IN ALL COMMITTED UNITS	377300
AT THE END OF A SPECIFIED CI. A "COMMITTED" UNIT IS ONE WHICH IS	377310
CUPRENTLY BEING GAMED OR MMICH HAS BEEN GAMED DURING SOME CI.	377320
	377330
UNCOMMITTED UNITS (IE. UNITS IN SECTOR 8.) ARE NOT INCLUCED.	977348
RATHER, PENAINING WPNS OF UNCONSITTED UNITS ARE SUBTRACTED	077 350
FROM THE BEGIMNING STRENGTH APRAY ("BEGIN")	277360
	377373
<u>жерь регеричин речинильной институтура</u>	MJ7738C
•	077390
COMMON IA. 10. IP. LENGAG. ITERRN, IVIS. IMCUNT, MINES, CERR, FSFPR, FPR,	377490
1 ATIME, IFIRST, IRUN. NORD, FMASS, IMAXKV,	377413
2 SF(2),FSSF(2),PACK(2),	377420
3 EL4T(80.2),4LOSS(66,66),5MOTS(55,2),CKILL(53.2),5MOTSV(55,2)	677436
COM ON/O ATA/FPS (80, 2), CREWS (53, 2), A FOS (12), CPOS (6), ITHEF + (2), 2),	377443
1 PSN (6.2.2), PLT (15), KEY (171)	377450
COMMON/ONE/LEIT(35), ARRAY (90), MYBUF(1026), C(90,2), ACI, AGCENE, ASEC	7277463
COM CN/THREE/IHIST (35), 4H (90), IYBUF (1024)	277473
COMMON/OUTPT/CCI(2).TOUT.KIND(2).TCTAL(3.2.2).BEGIN(65,2).NCI1.	377480
* NCI2, CATLOS (65.13.2), CATSUM (11.2), TY FE (5), GRTG (10.10), NBRIG	3 77 490
IF(NGI2.GT. 6. AND.NCI2.LE. 91)GO TO 100	277500
PPINT *, "ERRORNCI2 NOT SET"	377513
GO TO 160	377523
100 CALL OPENH(IHIST, 3LI-0, 1LR)	377530
ACI=ARRAY(NCI2)	<u>077540</u>
AH(1)=ACI	377553
4 H(6) =99999 .	377560
CALL GET(IHIST,AH,AH(1),0,10)	377573
IF (B H(4) .NE.99999.)GO TO 130	277563
PPINT 110,4CI	377593
118 FORMAT(" NO UNIT RECORDS ON FILE FOF CI ",A19)	277600
GO TO 170	977613
120 CALL GETN(IHIST,AH,AH(1))	_377623
M=IFETCH (THIST, 2LFP)	977530
IF(M.EQ.1008)GO TO 170	377543
IF(AH(1)-NE-ACI)GO TO 170	377650
130 J=AM(5)	<u> 177563</u>
IF(J.LT.1.0R.J.GT.2)G0 TO 120	37757;
IF(8H(4).EQ.0.)GO TO 150	_377540
THE A "COMMITTER" HMIT -ARM MENC IN FLOT ADDAY	077690
*** A "COMMETTED" UNIT-ADD WPMS TO ELMT APRAY ***	_077703
00.446.7-4.47	677710
03 140 I=1,65	277725
ELMT (I.J)=ELMT (I.J) +AM(I+10)	377730

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1 LO CONTINUE	: 2743
140 CONTINUE GO TO 120	a 7 750
+++ AN "UNCOMMITTED" UNITSUBTRACT HPNS FROM BEGIN ARRAY +++	<u> </u>
	077790
150 00 160 T=1,65	377790
169 CONFINUE	<u>37740</u> 3 377813
GO TO 120 170 CALL CLOSEM(IHIST)	077923
170 CALL CLOSEM(IMIST) 180 RETURN	077930 <u>37794</u> 0
END /	077950
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M-203	

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SUBROUTINE SUNTOT (NB1, NB2, NB1, NB2)	3779
ANGUALANT ANTIQUE TO THE ANTIQUE TO	3778
<u>) </u>	
	1779
A POUTINE WHICH FILLS THE "TOTAL" ARRAY BY SUMMING THE BEGIN.	1779
ELYT. AND D ARRAYS. TOTAL IS USED TO GENERATE THE	2779
RATIO STATISTICS.	1779
KRIAU ZIRIAZIAUZI	3779
<u>. </u>	
ton near those of the state of	2773
COMMON IA. ID. IP, IENGAG, ITERRN, IVIS, I MOUNT, MINES, CEPE, FSEPS, FOR.	3779
1 ATTHE IFIRST IRUN NOPO FMASS IMAXKV	3779
	2779
2 SF(2),FSSF(2),PACK(2), 3 ELAT(80,2),ALOSS(66,66),SHOTS(55,2),CKILL(53,2),SHOTCV(55,2)	9740
COMION/CATA/FPS(80,2),CREMS(53,2),AFOS(12),CPOS(6),ITME+M(23,2),	376
1 PSN (6,2,2), PLT (15), KEY (171)	
COMMON/ONE/LFIT(35).AFRAY(90),AYBUF 11024),D183,2),ACI,ASCENE,ASEC	2793
COMMON/THREE/IHIST (35), AH (90), IYBUF(1024)	
COMMON/OUTPT/CCI(2), ICUT, KING(2), TCTAL(3,2,2), BFGIN(65,2), NCI1.	0790
+ NCI2.CATLOS(65,13,2),CATSUM(11,2),TYPE(5),8KIG(10,10),N84IG	0783
00 100 I=1,3	9749
DO 130 K=1,2	3763
CO 106 J=1.2	3780
TOTAL(I,K.J)=3.	0781
<u>ao continue</u>	Ç781
	37 91
*** SET HON PARAMETERS FOR BLUE ***	
	J751
J=1	<u> 2751</u>
N1=V81	0791
N 2=N 8 2	37.51
	1751
*** SEGIN FILLING TOTAL ARFAY ***	0781
	0752
19 00 120 I=N1.N2	3792
TOTAL(1, J, 1) = TOTAL(1, J, 1) +9EGIN(I, J)	3782
TOTAL (1, J, 2) = TOTAL (1, J, 2) + BEGIN (I, J) + FPS (I, J)	37 9 2
TOTAL (2, J, 1) = TOTAL (2, J, 1) +ELHT (1, J)	3792
TOTAL(2.J.2)=TOTAL(2.J. 3) +FLNT(I.J) +FFS(I.J)	0782
TOTAL (3. J. 1) = TOTAL (3. J. 1) + (8EGIN(I, J) -ELMT(I, J))	~ 3792
TOTAL (3. J. 2) = TOTAL (3. J. 2) + (BEGIN (1. J) - ELMT (1. J)) + FPS (1. J)	3788
20 CONTINUE	2782
20 00 00 00 00 00 00 00 00 00 00 00 00 0	3782
ST WPN PARAMETERS FOR PED	~ 3793
	27 93
IF(J.EQ.2)GO TO 130	675
ja2	279
N1=VR1	:73

	- ~ -

N2=NR2 G0 T0 11C 130 RETURN END	27435 27836 27837 27838
130 RETURN	27.837
END	37835
	
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M_205	

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7/4 A

	SUBROUTI NE SUMUP	1784
_		37841
G	\$	27343
	A ROUTING WHICH FILLS VAPIOUS LOSS AFRAYS FROM THE ALCSS ARRAY	37944
_	"CATLOS", "CATSUM", AND "O" ARRAYS AFE FILLED	27845
		67946
H	кіны рыныны тыныны белекініны тыны тыны рыныны біры біры біры біры біры біры біры бір	1794
_		27845
	COMMON IA, ID, IP, IENGAG, ITERRN, IVIS, INGUNT, MINES, CFPR, FSFR, FSR,	57849
	1 ATTME, I FIRST . IRU P, NORD . F MASS . I MAXKV,	17950
	2 SF(2),FSSF(2),PACY(2),	07851
_	3 FLMT (30, 2), ALOSS (66, 66), SHOTS (55, 2), CKILL (53, 2), SHOTS (55, 2)	2745
	COMMON/OATA/FPS(80,2),CREWS(53,2),AFOS(12),CPOS(6),ITHERM(20,2),	37453
_	1 PSN (6,2,2), PLT (15), KEY (171)	57854
	COMMON/ONE/LFIT(35), ARRAY(90), MYBUF(1024).0(90,2), ACI.ASCENE, ASECT	
-	COMMON/THREE/IHIST (35), AH (90), IYBUF (1024)	1795
	COMMON/OUTPT/CCI(2).IOUT.KIND(2).TOTAL(3,2,2).35GIN(65,2).NCII. * NCIZ.CATLOS(65,13,2).CATSUM(11,2).TYFE(5).9FIG(13,13).NERIG	1795
-	CITE NSION MAP (66)	37559
	DATA MAP/4-1, 7,5-1, 2-2, 3-3, 5-6, 6-4, 5, 2-4, 6, 5-9, 3-10, 4-11,	3796
_	1 16* 9.7* 12.13/	1786
	P 90, 241, 7547 11	0736
_	00 120 J=1,2	1786
	CO 110 T*1.65	37864
	90 100 K≈1,66	3786
	IF(J.EQ.1)	37866
	* AKILL=IFIX(ALOSS(K,I)/FACK(1))/10.	37567
_	IF(J.EQ.2)	9756
	* AKT LL=(ALOSS (K, I)-IFIX (ALOSS (K. I) / FACK (1)) *PACK (1)) /10.	0786
	AKILL=IF?X(AKILL+.5)	3747
	IF(AKILL.LE.0)GO TO 100	9757
	D(I, J)=0(I, J)+AKILL KT=MAP(K)	37973 37973
	If(KT.LE.G.QR.KT.GT.13)GG TO 139	27376
-	CATLOS (1.KT.J) *CATLOS (1.KT.J) +4KILL	3797
•	30 CONTINUE	6797
	10 CON INUE	3797
_	20 CONTINUE	1787
_=	RETURN	17979
	ENO	3784

SUBROUTINE HEADER 275832 378850 37886C A POUTINE WHICH WRITES OUT A HEADING FOR OUTPUT WHICH IS BEING CREATED 075573 374900 375910 COMMON IA.ID. IP . IENGAG. ITERPN, IVIS, IMCUNT . MINES . CFPR. FSFPP . FP4 . ATIME, IFIRST, IRUN, NORC, FHASS, IMAXKY, 378925 2 SF(2) .FSSF(2) .PACK(2) . 279930 ELNT(80.2),ALOSS(66.66),SHOTS(55.2),CKILL(53.2),SHOTS(55.2) COMMON/DATA/FPS(80.2),CREWS(53.2),AFOS(12),CPDS(6),ITHERM(23.2), 074940 074950 PSN (6.2.2) . PLT (15) . KEY (171) 275950 COMMON/ONE/LFIT(35), ARRAY(90), MYBUF(1024), 0 (50,2), ACI, ASCENE, ASEC 078970 COMMON/THREE/IHIST (35), AH (90) . IYBUF (1024) 374980 COMMON/OUTPT/CCI(2), IOUT, KINO(2), TO TAL(3,2,2), SEGIN(65,2), NCI1, 175990 NCI2.GATLOS(65,13.2).CATSUM(11.2).TYPE(5),3FIG(10,10),M9RIS IF(IOUT.LE.0.OR.IOUT.GE.6)GO TO 250 379200 379013 60 TO (160.130,160,190,220). IOUT 079020 100 WRITE(6,110) 110 FORMAT("1") 179030 079040 WRITE(6, 120) ACT, AS ECT 120 FORMAT("OSINGLE SECTOR CUTPLT FOR CT- ", A1C," : 379050 979050 GO TO 250 279072 130 HRITE(6,140) 140 FORMAT("1") 279882 379093 WRITE (6,150) AGI
150 FORMAT("OPARTIAL CI OUTPUT FOR CI- ".A1C) 379130 379113 GO TO 250 079122 160 WRITE(6,170) 179130 178 FORMAT("1")

HRITE(6,180) ACT

180 FORMAT("DRULL CI CUTPUT FCR CI- ".A10) 379140 07915: 179165 179173 GO TO 250 190 MRITE(5,200) 200 FORMAT("1") 279183 17919: WRITE (6, 210) CCI 210 FORMAT ("CPARTIAL GAME OLTPUT FROM CI- ", A10, " THECUGH CI- ", A10) 379233 37921: GO TO 250 37922 220 WATTE (6. 230) 279230 230 FORMAT ("1 :7924: WFITE (6. 240) CCI 279250 :7926: 240 FORMAT ("OFULL GAME OUTPUT: CI- ".413," THOOUGH CI- ".413 250 PETURN 379273 END 79290

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INE REPORT INGEGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	37933 37934 37935 37936 37937 37938 37939 37941
WHICH CALLS THE SUBROUTINES THAT CREATE THE "C. WHICH MAKE UP AN OUTPUT FILE. IMMMHAMMHAMMPPHAMMPPHAMMPPHAMMHPPHPHAMMHAMPPAMMHPHAM	37933 37934 37935 37936 37937 37938 37939 37941
CO. WHICH MAKE UP AN OUTPUT FILE. IMMMHMHMHMHMHMHMHMHMHMHMHMHMHMHMHMHMHM	17935 17935 17936 17937 17938 17939 17941
CO. WHICH MAKE UP AN OUTPUT FILE. IMMMHMHMHMHMHMHMHMHMHMHMHMHMHMHMHMHMHM	07934 07935 07936 07938 07939 07939 07940 07941
IAMMMAHAMMPPAMMAPPAMAMPHAMAMPPPPPPAMAMAMAPPAMARPAMAPPAMARPAMAR	97936 97937 97938 97939 97940
(A.10.IP.IENGAG.ITERSN.IVIS.IMCUNT.MINES.CFPR.FSFP4.FPF., IFIRST.IRUN.NOPC.FMASS.IMAXKV. 'SSF(2).PACK(2). 1.2).ALOSS(66.661.SMOTS(55.2).CKILL(53.2).SMOTSV(55.2) DATA/FPS(80.2).CREMS(53.2).APOS(12).OPOS(8).ITMERM(20.2). 2.2).PLT(15).KEV(171)	07937 57938 07939 67940
(A.10.IP.IENGAG.ITERSN.IVIS.IMCUNT.MINES.CFPR.FSFP4.FPF., IFIRST.IRUN.NOPC.FMASS.IMAXKV. 'SSF(2).PACK(2). 1.2).ALOSS(66.661.SMOTS(55.2).CKILL(53.2).SMOTSV(55.2) DATA/FPS(80.2).CREMS(53.2).APOS(12).OPOS(8).ITMERM(20.2). 2.2).PLT(15).KEV(171)	07938 07939 07940
<pre>LFIRST,IRUN,NOPO,FMASS,IMAXKV, FSSF(2),PACK(2), 1,2),ALOSS(66,66),SMOTS(55,2),CKILL(53,2),SMOTSV(55,2) DATA/FPS(80,2),CREMS(53,2),APOS(12),DPOS(N),ITHERM(20,2), 2,2),PLT(15),KEY(171)</pre>	07939 07940 37941
<pre>LFIRST,IRUN,NOPO,FMASS,IMAXKV, FSSF(2),PACK(2), 1,2),ALOSS(66,66),SMOTS(55,2),CKILL(53,2),SMOTSV(55,2) DATA/FPS(80,2),CREMS(53,2),APOS(12),DPOS(N),ITHERM(20,2), 2,2),PLT(15),KEY(171)</pre>	37941
"SSF(2),PACK(2), 1,2),ALOSS(66,66),SHOTS(55,2),CKILL(53,2),SHOTSV(55,2) DATA/FPS(80,2),CREHS(53,2),APOS(12),DPOS(A),ITHERM(20,2), 2,2),PLT(15),KEY(171)	37941
1,2),ALOSS(66,66),SHOTS(55,2),CKILL(53,2),SHOTSV(55,2) DATA/FPS(80,2),CREWS(53,2),APOS(12),DPOS(6),ITHERW(20,2), 2,2),PLT(15),KEY(171)	
DATA/FPS(80,2),CREHS(53,2),APOS(12),DPOS(6),ITHER (20,2), 2,2),PLT(15),KEY(171)	
2,2),PLT(15),KEY(171)	57943
	17944
DNE/LFIT(35),ARRAY(90),MYBUF(1024).D(80.2),ACI.ASCENE.ASECT	
'HREE/IHIST(35), AH (98), IYBUF (1824)	37946
OUTPT/CCI(2), ICUT, KING(2), TO TAL(3,2,2), BESIN(65,2), NCI1,	37947
TLOS (65,13,2),CATSUH(11,2),TYPE(5),BRIG(10,10),NBRIG	27944
	17949
	07950
	17951
	37952
• •••	079530
	27954
	27956
	27957
	27959
	279590
CAT	37960
LET	37961
UL	37962
	27963
ويورون والمراجع	37964
	97965
	17966
	17967
	77968:
	37969
	ATLOS(65,13,2).CATSUM(11,2).TYPE(5).BRTG(13,10),NBRTG EGINNING FORCE STRUCTURE NPAG 1,100) 1x, "FORCE STRUCTURE" [=1,65 N(1,1).EQ.CAMD.BEGIN(1,2).EQ.C.)GO "O 200 150)1.BEGIN(1,1).PEGIN(1,2) LOX.I10,2F9.0) EAFM CVRY LCAT LLET BUL LVIC IJOS(1) NE.1.AMO.IPUN.ME.2)CALL CP*LEP 167.3)CALL TRAGE

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SUBROUTINE RECYRY 380583 38060: 250610 040620 ROSTINE WHICH WRITES OUT THE DAMAGE & RECOVERY TABLES TO THE OUTPUT FILE. 340550 COMMON IA, ID, IP, IENGAG, ITERRN, TVIS, IMOUNT, HINES, CFOF, FS FPO, FP2, 343663 ATTHE . IFTEST . TRUM . NURD . FMASS . THAYKY . 359678 2 SF(2) FSSF(2) PACK(2), 390683 : <u>ELMT(40, 2), ALOSS(66,66), SHOTS(55, 2), CKILL(53, 2), SHOTSV(55, 2)</u>
COMMON/DATA/FPS(80,2), CREWS(53, 2), AFGS(12), CFGS(6), ITMERM(23, 2), 190690 340700 1 PSN 16 . 2 . 2) . PLT (15) . KEY (171) 39 07 10 COMMON/ONE/LFIT (35).ARRAY (90), TYPUF (1924).O(80.2).ACI.ASCENE.ASECT 180720 COMMON/THREE/IMIST (35).AH (90).IYBUF (1924) 390730 COMMON/OUTPT/CCI(2), IOUT, KINO(2), TOTAL(3,2,2), BEGIN(65,2), NCIL. 190740 MCIZ.GATLOS(65,13,21,CATSUM(11,2),TYPE(5),9FIG(11,10),NBRIG

DIMENSION RECOV (2,2,3),THER (2,2,3),FGS(2,2,3),FREG(9) 190750 094763 QATA (((PECQV([,J,K),[=1,2], =1,2), K=1,3)/.92,.69,.39,.56,.90,.67, 189772 . 67..56..92..67..0..0/ DATA(((THER(I,J.K).I=1,2).J=1.2).K=1.3)/.11..16..67..23..22. . 28..49..51..16..22.20.0/ DATA(((FOS(I,J.K).I=1,2).J=1,2).K=1,3)/.33..49..21..28..26..53. 986783 14:79: 980831 090910 187830 190940 290952 330360 380873 050553 140 FORMAT("+",5X,"TYPF OR LCST
" " RFMAIR",7Y,"TYPE OR LOST
+ " 11 DAYS") REPAIR", JACA90 CAMAGED REPAIR 2 CAYS 286913 Č 38092 CALL CPENMS (3, KEY, 193,0) CALL READMS (3, PREC, 9, 35) 380930 14094 CALL CL CSHS (3) 082953 380961 CALL NEWPAG 28097 WRITE (6, 100) 350950 WRITE (6, 260) 3A3990 WPITE (6, 260) 281330 WRITE (6, 260) 381313 WRITE(6, 110) 281320 WPITE(6.250) WRITE (6, 260)

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	WPIT E (6.120)	2813
	WRITE(6, 260)	361
	WRITE(6.130)	0516
	WRITE(6, 260)	041
	WRITE(6, 140)	381
	WRITE(6, 260)	381
		281
	INX=0	381: 381:
	ITH® Q	281
	IPPs 2	051
	IF(IA.ED.1)IPP=1	1811
	NB=Q	041
	NR=6	3911
150	BTKILL=6.	0311
	9° ₹ LL=0.	251
	REEP = 0	3512
	J=1	381
	INUM = N9+1	091
	IFII NUM. GT. 651GO TO 190	0912
	00 140 I*INUM-65	3412
	N9=1	9812
	IF (0 (I.1).LE5)GO TO 190	691
	87%TLL=0(1,1) IF(I.LE.15)GO TO 170	C913
		9413
	IF (I.GE.59) GO TO 179 IF (I.GE.16.AND.I.LE.2G) INX=1	2913
	IF (I .GE. 21.ANO.I.LE.30) INX=2	
	IF (I .GE. 31.ANO. I.LE. 58) INX=3	091
	00 160 K=1,13	
	17Hz 2	451
	If (K. EQ. 4)["H=1	0 91
40	SPEP = PREP + IFI Y (RECOV(IPP + ITH + INX) - CATLOS(I, K + J) + . 5) CONTINUE	3913 3913
	BNREP= ATKILL - BREP	3914
	BCOS=IFIX (BRE FFGS (IPF, ITH, INX) +.5)	3914
	BCIV=BTKILL-(BNREF+BT FEA+9C CS)	
	GO 70 190	3414
_	CONFINUE	3814
.98	INMENRAL	1914
	IF(INUM.GT.65.ANO.N9.GE.65)GQ TO 237 IF(INUM.GT.65)GQ TO 150	3514
	DO 210 I=INUM,65 NR=E	3415
	IF()(I,2).LE5)GO TO 210	j419
	RTKILL=9 (I,2)	3415
		

RREP = 0 (1.2) <u>04153</u>2 091542 IF (I .LE. 15) RREP=0 IF (1 .GE. 59) RR EP=0. 08155 IF(I.LE.15.0R.I.GE.59)GO TO 200 IF(I.GT.15.ANU.I.LT.59)RREP=PREF-CATLOS(I.13.2) 081560 141570 RREP Z=IFIX (RREP *PREC(1)+.5) 381580 RPEPS=IFIX (OREP-PREC (2) + . 5) 101590 ROEP10=IFIX(RREP-PPEC(3)+.5) 091600 RREP 2= REP 2+ IFIX(GATL CS (I, 13, 2) - .275 * FPEC(1) + .5)
RREP 5 = RRE F5 + IFIX (GATL CS (I, 13, 2) * .275 * PREC (2) + .5)
RREP 10 = RREP 10 + IFIX (GATL CS (I, 13, 2) * .275 * PREC (3) + .5) **14161**0 35162 291630 RREP =RREPZ+RREP5+RPEP 10 351543 CONTINUE Q41650 RNREPERTKILL-RREP 4#156: GQ TQ 223 15157: 218 CONTINUE
228 IF(3 TKILL.GT. 8.)

* WRITE(6,248) NB, 3TKILL. SNREP, 3PER, 3THE A.SCOS. BDIV 881680 181690 09170: IF(RTKILL.GT.0.)
WRITE(6.230) NR. RTKILL. RNREP, RREP. RREP2, RPEP5, RPEP10 381712 341720 ** MRITE(6,270, MY)

MRITE(6,260)

GO TO 150

230 MRITE(6,271)

240 FORNAT(***,70*,12*,2(3*,F6*,0),4*,F6*,0,3*,F6*,0,2(2*,F6*,0))

250 FORNAT(***,70*,12*,2(3*,F6*,0),4*,F6*,0,3*,F6*,0,2(2*,F6*,0))

260 FORNAT(***,1*,129(****))

270 FORNAT(***,1*,129(****))

BETURN 251730 381750 481760 <u>041770</u> 031752 391790 491900 ENO 391910 M-211

0

11-641

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Actions

SUBROUTINE KILCAT A FOUTINE WHICH WRITES OUT THE "LOSSES BY SOURCE OF LOSS" TABLE TO THE OUTPUT FILE. COMMON IA, 1D. IP. IENGAG, ITERRN, IVIS, IMCUNT, MINES, CFPF, FSFR, FPR, ATIME, IFIRST, IRUA, NORD, FPASS, IMAXKY, 2 SF(2),FSSF(2),PACK(2), ELMT(10,2),ALOSS(66,66),SMOTS(55,2),CKILL(53,2),SMOTSV(55,2)
COMMON/DATA/FPS(80,2),CREWS(53,2),AFOS(12),DPOS(6),ITHEPM(20,2), 1 PSN (6.2,2), PLT (15), KEY (171) COMMON/ONE/LFIT (35), ARRAY (90) . MYBUF (1024), C (80 . 2) . AGI. ASCENE, ASECT 3619 40 COMMON/THREE/IHIST (35) . AH (90) . IYBUF (1024) COMMON/OUTPT/CCI(2), IOUT, KIND(2), TO TAL(3,2,2), SEGIY(65,2), NCI1, MCIZ.GATLOS(65,13,2).CATSUM(11,2).TYPE(5).BRIG(10,10).N9FIG DIMENSION IPOR(3).XCAT(16).MAP(66.2).ICAT(16) DATA MAP/14.3+0.7.5+1.2+2.3+3.5+6.6+4.5.2+4.6.5+9.3+16.4+11. 5-16,11-8,4-12,3-15,13, 14,3 10,7,5 1,2 2,3 3,5 6,6 4,5,2 4,6,5 9,3 11,4 11,5 16,11 19,7 12,13/ DATA ICAT/"INF CBT", "LT ATGM", "GC ATGM", "INF/CAV", "ME ATGM", "TANK", "NINES", "IN FIRE", "AG GUN", "SE MSL", "LT MSL", "ATK MEL", "TAGAIR", "TFUCKS", "SC" MEL", OATR [FOP/"(1H+,5X,"," ","X,F0.1)"/
100 FORMAT("",51X,A4," LOSSES BY S(UPCE OF LOSS")
110 FORMAT("","VICTIM",2 3X,"GNO",3X,"INF/CAV",4X,"MECH",24X,"IND",
1 12K,"SHORAO",5X,"LPAC") 18217: 120 FOFMAT ("0", 2x,12) 125 FORMAT ("0",A7) IF(LOUT-LE.G. OR. LOUT-GE.6)GO TO 160 00 150 J=1.2 GALL NEWPAG WPITE(6, 100) KIND(J) WPITF(6. 110) 39230:

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102313 192325 WRITE (6. 115) WPITE(6, 118) HQITE(6. 119) 182330 00 140 I=1.65 IF(7(I.J).LE..1)60 TO 140 352340 142350 WPITE (6, 120) I 042360 00 130 K=1.13 IF(GATLOS(I,K,J).LE..1)GO TO 130 09237: 09238: IFOR (2)= NUMB ((K-1)+9) 14239: WRITE(6, IFOR) CATLOS (I,K, J) 352400 0.42613 138 CONTINUE IFOR (2)=NUMB (118) J8242: WPITE(6, IFOR) C(I, J) 692430 392440 140 CONFINUE CALL NEVPAG 092450 WRITE(6, 100)KIND(J) 382463 WRITE (6. 110) 282470 WRITE (6, 117) 182480 WRITE(5.119) 242490 WRITE (6, 119) 392500 00 147 KK=1.16 782510 YCAT =0 192520 CO 145 K=1.13 19253C 192543 342551 162561 00 141 I=1.65 IF (HAP(I,J).EQ.KK) X CAT(K) = XCAT(K) + CAT LOS(I,K,J) 141 CONTINUE 092570 YCAT=YCAT+XCAT(K) 192582 182590 145 CONTINUE IF (YCAT-LE .. 1)GO TO 147 382503 MRITE (6, 125) ICAT (KK) 00 146 K=1,13 092510 092620 IF (XCAT(K) .LE .. 1) 60 TO 146 IFOR (2) = NUMB ((K-1) +9) 382630 182647 WRITE (6. IFOR) XCAT (K) 312653 146 CONTINUE 092560 IFOR (2)=NUMB(118) WRITE(6, IFOR) YCAT 292571 192581 147 CONTINUE 150 CONTINUE 160 RETURN 192690 352700 35271: END 25750

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SURROUTING BULLET	252743
	092750
<u>୧ ୧୫୫୫ ୧୫ ୧୫ ୧୫ ୧୫ ୧୫ ୧୫ ୧୫ ୧୫ ୧୫ ୧୫ ୧୫ </u>	
	192770
A ROUTINE WHICH MPITES OUT THE TABLE OF AMPUNITION EXPENDIT	URES 082780 082790
, Наминие ид напречения инперприяния какон и черения иниститут приняти и при	
	392815
COMMON IA. ID. IP. IENGAG. ITERRN. IVIS. INCUNT, MINES, CEPF. ES EPF	
1 ATIME, IFIRST, IRUN, NORD, FHASS, IMAXKV,	162933
2 SF(2),FSSF(2),PACK(2),	152340
3 ELNT (80.2) . ALOSS (66.66) , SHOTS (55.2), CKILL (53.2) , SHOTSV (55	
COMMON/OATA/FPS(80,2), CREWS(53,2), APOS(12), CPOS(6), ITHERM	
1 PSN (6,2,2),PLT (15),KEY (171)	032973
CCMION/ONE/LFIT(35), ARRAY (90), MY 9UF (1024), C(80, 2), ACI, ASC	NE ASECT: 8288C
COMMON/THREE/IMIST (35), 4H (90), IYBUF (1024)	352693
COMMON/OUTRY/CCI12), ICUT, KINC(2), TOTAL(3,2,2), BEGIN(65,2)	NCI1, 082900
* NCI 2, CATLOS (65, 13, 2), CATSUM (11, 2), TYFE (5), BR TG (13, 10), NB	
	192923
IF (IOUT.LE.G.OR.IQUT.GE.6)GO TO 150	082930
CALL NEW PAG	392945
	542953
HRITE(6, 100)	182962
100 FORMAT(" AMMUNITION EXFENCITURE")	382973
WRITE(6, 110)	182983
110 FORMAT(" BLUE RED")	352990
WRITE(6.120) 120 FORWAT(" TYPE-NUMBER TYPE-NUMBER")	383303 383318
128 FORTALL TYPE-NUMBER TYPE-NUMBER"	0,33220
WPIFE(6,130) I, SMOTS(I,1), I, SMOTS(I,2)	993030
130 FORMAT (" ",13.F8.0.16x, 13.F8.0)	643843
140 CONFINUE	383950
	083160
150 RETURN	093070
ENO	083896
•	
	
	
M-214	

To A

SUBROUTINE KILVIC 19313 383130 ROUTINE WHICH WRITES OUT KILLER/VICTIM PATRICES 243140 SIX TYPES OF ASSESSMENTS DONE IN THE JIFFY GAME. 083150 263140 COMMON IA, ID. IP, IENGAG, ITERRN, IVIS, I HOUNT, MINES, CFPR, FSFP=, FP?, 183195 ATTHE . IFTRST . IPUN . NORD . FNASS . INAXKY . 593290 SF(2) .FSSF (2) .PACK(2) . 393210 ELAT (40.2) . ALOSS (66.66) . SHOTS (55.2) . CKILL (53.2) . SHOTS (55.2) 543222 COMMON/DATA/FPS (90.2) .CREWS (53.2) . APO S(12).CPOS(6) . THEF H(20.2) . 383233 PSN (6.2.2) .PLT (15) .KEY (171) 283240 COMMON/ONE/LFIT (35), A RAY (90), MYBUF (1024), D(80,2), ACI, ASCENE, ASECT 393250 COMMON/THREE/IHIST (35) . AH (90) . IY BUF (1 (24) 343260 393273 393283 COMMON/OUTPT/CCI(2), IOUT, KIND (2), TO TAL(3, 2, 2), BEGIN (65, 2), NCI1, NGIZ.GATLOS(65,13,2).GATSUM(11,2),TYPE(5),APIG(10,10).NAFIG DIMENSION VCLASS(6),IKILL(6,2),IVICT(6,2),XKILL(65,23,2),IFOR(3) 3 13 29C OTHENSION CHEAD(20) 993300 093313 INTEGER CHEAD DATA VCLASS/"ARHOR", "INFANTRY", "HI NES", "ARTILLERY", 19332 "HELICOPTER", "ADA"/ 183330 DATA ((IXIL(I.J), [=1,6), J=1,2)/11,3,5,43,59,31,30,3,5,59,65,42/ DATA ((IVICT(I.J), I=1,6), J=1,2)/1,1,1,1,1,5,59,32,15,32,58,42,65/ 39334 183350 DATE IFOP/"(1H+,9X,"," ","X,F6.11"/ 9<u>83</u>369 143370 IF(IOUT.LE.G.OR.IOUT.GE.61GO TO 360 193390 00 240 MI=1,6 283394 L=IXILL(MI,1) H=IXILL(MI,2) LL=IVIC*(MI,1) HH=IVIC*(MI,2) 393403 093413 283420 193430 393445 00 230 J=1.2 393450 TOTE O. 383463 I T=g 00 130 T=L.H ITOLT+1 043483 00 120 K=LL.MM 243490 14350: IF(J.EQ.1)GO TO 130 XKILL(K.IT.J) = (ALOSS(I.K)-TFIX(ALOSS(I.K)/PACK(1))-FACK(1))/11. 99351. GO TO 110 100 XKILL(K, IT, J) = IFIY(AL3SS(I, K)/PACK(1))/10. 093520 193530 110 TOT=TOT+XKILL(K,IT,J) 383543 120 CONTINUE 213550 243560 183571 CONTINUE 130 IF(TOT.EQ.0.) GQ TQ 230

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(CALL NEMPAG	393540
	JJ#3 - J	383590
1	HRITE (6.140)	093600
140	FORMAT (** *********************************	-1093613
1	<u>ICTIH YATRIYOOOGOGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG</u>	98 36 23
1.	4448 as m	ũ83632
	HRITE(6, 150) KIND(JJ), ICLASS(MI)	093647
150	FORMAT (8 X, ****, 45X, A4, 1X, A10)	293650
1	HRITE(6.160)	343660
160	FORMAT(" VICTIM +",47x,"KILLEH")	193570
	WRITE(6.170)(IK.IK=L,M)	38368C
179	FORMAT (8x, ****, 5x, 20(I2, 4x))	353698
	WRIFE(6, 180)	393700
180	FORMAT (************************************	18371:
1	\$ - 40 + 4 - 4 + 4 + 4 + 4 + 4 + 4 + 4 + 4 + 4 + 4 	4-093729
2	6 4 4 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	093733
	OO ZZO I=LL,HM	193740
;	Sume d.	283750
1	DQ 190 II=1.I7	093760
	Sum Sum XXILL (I, II, J)	053770
	CONT INUE	283760
	IF(SUM.LE.Q.)GO TO 220	383790
	WRITE(6, 200) I	<u> </u>
200	FOR4 AT ("G", 2X, 12, 3X, "" ")	353610
	00 210 II=1.IT	033920
	IFIXKILL(I.II.J).LE.G.)90 TO 210	183830
	IFO# (2) = NU H9 ((II-1) +6)	383849
	MPITE(6,IFOR) XKILL(I,II,J)	283853
	CONTINUE	393860
	CONTINUE	383870
	WRITE(6,130)	153560
	CONT INVE	333890
240	CONT INUE	253960
		383910
	TOTAL KILLER-VICT IN MATRIX	183925
		183931
	00 350 J=1.2	383940
	IT1=1	343953
	CO 340 JJ*1,4	143963
	IF(IT1.GT.66) GO TO 350	043970
		383990
	00 280 I=IT1.66	783990
	CTOT =0	19401:
	00 270 K=1.65	184020
	IF(J.EQ.1)GO TO 250	3*4330
	XKILL(K, IT, J) = (ALOSS(I, K) -IFI X(ALOSS(I, K)/PACY(1)) - PACY(1)) /1].	19664
	60 TO 260	394350

	XKTLL(K.IT.J) = IFIX(ALDSS(I.K)/PACK(1))/10.	1940
	CTOT=CTOT+XKILL(K,IT,J)	3445
<u> 271</u>	CONTINUE	1841
	IF (C TOT. EQ. 0.) GO TO 280	0843
	CHEAD(IT)=I	7941
	IT=[T+1	1941
	IF (IT.GT.20)GO TO 290	3961
	CONTINUE	3041
290	[7=[7-1	1541
	IT1= II+1 IF(IT.LE.0)50 TO 340	3841
	CALL NEWPAG	3841
	WRITE(6, 370)	7941
	WPIFE(6, 300) KINO(3-J)	0541
100		3842
<u> </u>	WRITE (6, 160)	3342
	WRITE(6.170) (CHEAD(IK), IK=1.IT)	3942
	WRITE(6.180)	1842
	00 330 K=1.65	1842
	SUM= 0	6342
	00 310 II=1,IT	
	SUM-SUM+XKILL (K.II.J)	1942
,,,,		3542
_	WRIFE (6. 200) Y	3342
	00 320 [[=1,[7	
	IF(XKILL(K,II,J).LE.0.)GO TO 329	2943
	IFOR (2)=NUMB((II-1)+6)	
	WRITE(6, IFOR) XKILL (K, II, J)	2343
320	CONTINUE	:943
	CONTINUE	3943
•	WRITE(6,180)	3943
340	CONT INUE	2843
350	CONTINUE	0843
	PETJRN	J843
		1344
370	FORMAT(" ", 44 ("+"), "AGGREGATED KILLF"-VICTIM MATRIX", 54 ("-"))	7544
	END	3944
	· · · · · · · · · · · · · · · · · · ·	

SUBROUTINE CPTLER 394450 344470 ROUTINE WHICH ALLOWS USER TO BUILD LER'S FOR A SPECIFIC 394480 HEAPON OR GROUP OF HEAPONS 094490 С Си аминия им наманичания приним империя и постава и постава постава и постава постава постава постава постава п С постава пост 54500 344520 COMMON IA, IO, IP, IENSAG, ITERPN, IVIS, INCUNT, MINES, CFOP, FSFFE, FPR, ATIME, IFIRST, IRUA, AQRO, FMASS, IMAXKV, 394530 154540 SF(2),FSSF(2),PACK(2), 394553 3 ELMT(80,2),ALOSS(66,66),SMOTS(55.2),(KILL(53,2),SMCTSV(55,2) COMMON/PEED/JOAY1,XINX(4),ICAPD(20),IAKPCF 9457. COMMON/DATA/FPS(A1,2),CREMS(53,2),APOS(12),CPOS(6),ITHEPM(20,2), 1945901 PSN(6,2,2),PLT(15),KEY(171) 0845901 GOMMON/ONE/LFIT(35),ARPAY(90),4YBUF(1024),O(80,2),ACI,ASCENE,ASECT094600 COMMON/THREE/IMIST(35), AH(90), IY9UF(1024)
COMMON/OUTPT/CCI(2), IOUT, KI NG(2), TO TA L(3, 2, 2), BEGIN(65, 2), NC:1 394610 334623 NCI 2 , CATLOS (65, 13, 2) , CATSUM(11, 2) , TYFE (5) , 8 & TG(10, 10) , N8 RIG 3463: GIMENSION IFOR(3) DATE IFOR/"(1H+,T"," 094540 ",",I2)"/ 384653 100 PRINT + . "OPTIONAL LER? 19466C 184570 ENOFILE 6 118 CALL PEEDA(IYN) 284682 354590 IF(IYN.EQ. "M" | IGO TO 190 IF(IYN.EQ. "V" | IGO TO 120 PRINT +, "MUST BE Y CP N--TRY AGAIN" 084786 284713 334720 60 TO 100 120 NUM NUM+1 384745 HSK9=17 19475 TOTAL (3.1.1) = 0. 394753 TOTAL (3, 1, 2)=0. 28477 TOTAL (3,2,1)=0. 084750 TOTAL (3,2,2)=0. IF (NUM.GT.1)GO TO 130 CAL. NEWPAG 194791 384900 28681 WRITE(6, 230) 334520 184433 384840 WRITE (6, 220) WRITE(6,240) 344451 14465 IF (NUM.NE.1) HPITE (6,260) IF (NUM.GE.8) NUM=0 284870 WRITE (6, 223) 344853 WRITE (6, 220) 334490 WRITE (6, 250) 384900 PRINT +, "ENTER BLUE WPN (O WHEN (CNE) -394913

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Or Charles

TO THE STATE OF

140	CALL REED4	13492
	IMPN=XINX(1)	384933
	IF(IMPN.EQ.0)GQ TO 180	184943
	IF(IMPN.GE.11.AND.IMPN.LE.651G) TO 163	18495
	PRINT TO MADY A VALID HAN 4MUST BE SETHEEN 11 AND 65"	254960
150	PRINT +, "NEXT- "	284975
	GO TO 140	25495
160	NSKP=NSKP+3	284993
	IF (NSKP. GT. 64) HRITE (6, 220)	
	IF(MSKP.GT.44)NSKP=20	345913
	IFOR (2)=NUMB (NSKP)	34532
	WRITE(6, IFOR) IMPN	285030
	TOTAL (3.1.1) # TOTAL (3.1.1) +0 (1 HPN.1)	295340
	TOTAL (3, 1, 2) = TOTAL (3, 1, 2) +0 (IMPN, 1) *FFS(IMPN, 1)	145050
	00 170 IV=16.65	15515
	AKILL=(ALOSS(IMPN.IV)-IFIX(ALOSS(IMFN.IV)/PACK(1))-PACK(1))/1].	285770
	AKILL=IFIX(AKILL+.5)	345390
	IF(AKILL.LE.Q.)GO TO 170	145190
	TOTAL(3,2,1) = TOTAL(3,2,1) + AKILL	
	TOTAL(3,2,2) #TOTAL(3,2,2) +AKILL+FFS(IV,2)	255113
_1ZQ	CONTINUE	345123
	GO TO 150	345130
1.50	CALL RATIOS(3)	185163
	IF(NUM.EQ.Q) WRITE(6,270)	355153
	PRINT " MANOTHER LEAT "	195160
4.00	GO TO 110	345173
	IF (NUM.NE.0) WRITE (6,270)	
	PETURN	295233
210	FORMAT(A1) FORMAT(" ",T3,"I",T44,"I",T95,"I")	345213
220	FORMAT(" ",37(""")," CPTICNAL LER'S ",32("""))	935 220
241	FORMAT ("+", TZ4, "WEIGHTED EQUALLY", T59, "WEIGHTED BY FES")	195230
	FORMAT (" +", T5, "INCLUDES BLUE: ")	395240
	FORMAT(" ",73,93("-"))	345250
	FORMAT (" ",T3,63("="))	245260
	END	19527
		
		-

SUBROUTINE RATIOS (JELAG) : 45290 385330 145320 ROUTINE WHICH COMPUTES AND WRITES OUT THE RATIO STATISTICS. 385331 RATIOS COMPUTEG APET LOSS EXCHANGE RATIO (LER):
INITIAL FORCE RATIC (IFR): FRAG'IONAL EXCHANGE RATIO (FER):
SURVIVING MANGUVEP FORCE RATIOS (SMFR) & CIFFERENTIAL (SMFR)). 095340 145360 145 370 Симинирыя вида ни иминиченный диминиченны в були чен ды и мина на на мина дивы прадения димина при при при при 4695336 085390 COMMON IA, ID, IP, IENGAG, ITERAN, IVIS, IMCUNT, MINES, CFPR, FS FPR, FPR, 235400 1 ATI ME . I FIRST . IRUN . NOPO . FMASS . IMAXKV . 055410 2 SF(2).FSSF(2).P4CK(2), 145425 ELAT (40.2), ALOSS (66.66), SHOTS (55.2), CKILL(53.2), SHOTS (55.2) 385430 COMMON/DATA/FPS(81,2),CREMS(53,2),AFCS(12),CPOS(6),ITME44(22,2), 285440 045450 PSN (6.2.2) . PLT (15) . KEY (171) COMMON/ONE/LFIT(35), ARRAY (90), MYBUF(1624), O(80, 2), ACI, ASCENE, ASECT345460 COMMON/THREE/IHIST(35), AH (90), 1790F (1024)
CCMMON/OUTPT/CCT(2), IOUT, KIND(2), TOTAL(3,2,2), 3EGIN(55,2), NCI1, 395471 185480 + NCI 2, CATLOS (65, 13, 2) . CATSUM (11, 2) . TYPE (5) . BRIG (10, 10) . NEFIG 035490 145537 MRITE HEADINGS: GET NUMBERS FOR COMPUTING RATIOS 185515 385523 IF(JFLAG.EG. 3) GO TO 120 385530 IFIJFLAG.EQ. 1) GALL NEWPAG 45540 WRITE (5.270) 345553 IF(JFLAG.EQ.1) WRITE(6,310) 385560 345575 IF (JFL 46 .EQ. 2) WRITE (6, 320) 245540 WRITE(6, 250) WRITE (6, 330) 185590 WRIT E (6, 300) 335600 245610 NP=0 14562: CALL SUMTOT (15,65,15,65) 245430 100 IF (#FLAG.NE.1) GO TO 110 235640 CALL NEWPAG WRITE (6. 270) 345653 34545 35670 WPITE (6, 310) 110 WRITE (5.290) 185580 WRITE(6, 330) 395700 WEITE (6. 300) 395713 CALL SUMTOT (16.30.16,30) 185725 395733 *** COMPUTE RATIOS *** 345743 ** LER 13575

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120 IFITOTAL (3.1.1) .GT. Q. ANO. TOTAL (3.1.2) .GT. 0.150 TO 130 PPINT *, "NO LER'S COMPUTED -- BLUE LOSSES = C" 155780 ALER-D. 35790 MLER=0. 395302 GO TO 140 095910 130 ALER=TOTAL (3, 2, 1) /TOTAL (3,1,1) 055429 WLEG = TOTAL (3,2,2)/TOTAL (3,1,2) 335<u>43</u>0 035640 185850 085860 185871 IFR IF(JFLAG.EQ.3)GO TO 230
IF(TOTAL(1,1,1).GT.0..AND.TOTAL(1,1,2).GT.0.)GO TO 157
PRINT - "NO IFR'S COMPUTEC - QLUE INITIAL = 0." 185880 085490 385903 AIFR =0. 145913 HIFR =0. GO TO 16C AIFR=TOTAL(1,2,1)/TOTAL(1,1,1) WIFR=TOTAL(1,2,2)/TOTAL(1,1,2) 185920 185930 150 385940 185950 185962 44 FER ++ 145379 160 IF(A IFR.GT.D. .AND.WIFF.GT.D.)GO TO 179 PRIMT ","NO IFR'S COMPUREC -- IFR = 0" 185980 115991 AFER =0 . 255444 HFER =0. 286310 14602: GO TO 150 170 AFER-ALEF/ATFR 196130 WFER=WLER/WIFR 345343 055050 196060 ** RED SHER ** 15372 180 IF(TOTAL(1,2,1).GT.0..ANO.TOTAL(1,2,2).GT.C.IGO TO 196 196332 PRINT -, "NO RED SHER'S COMPUTED -- REE INITIAL = 1." 386393 RSMF R= 3. 796100 WRSMFP =0 396113 GO TO 20 Q 086129 190 PSHFR=TOTAL(2,2,1)/TOTAL(1,2,1) 355130 WRSHFR=TOTAL (2, 2, 2) / TOTAL (1, 2, 2) 196140 395150 336160 336170 ** BLUE SHEP ** 200 IF (FOTAL (1,1.1).GT. 0..AND. TOTAL (1,1.2).GT.0.)GD TO 213
PRINT *, "NO BLUE SMFR'S COMPUTED -- BLUE INITIAL = 2" 086195 196193 396200 96 21 3 WESH FP=0 . GO FO 220 396220 16230 210 BSHFR=TOTAL(2,1,1)/TOTAL(1,1,1) 33524: WBSNFR=TOTAL (2,1,2)/TOTAL (1,1,2)

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M-222

TANK.

GO TO 100	18673
250 WAITE(6.350) .	18674
260 RETURN	1.575
270 FORMAT(" ".31(""")," RATIC STATISTICS ".32("""))	14676
280 FORMATI" ".T3."I".T48."I".TAS."I".TS."ALL MAJOR HEAPON SYSTEMS ")	346775
- 290 FORMAT{" ".T3,"I".T48."I".T85."I".T5."A#MCR WEAFON SYSTEMS CNLY")	19673
300 FORMATI" ". 73 . TT". T48 . TT". T95 . TT". T24 . WEIGHTED EQUALLY". T99.	1 46 7 90
* "MEIGHTED BY FBS")	396430
310 FORMAT(" ". 33x. "(STANCARD OLTPUT)". T3. "I". T35. "I")	355613
320 FORMAT(" ".32X."(GAME TRACE CUTPUT)".T3."[".T35."["]	13532
330 FORMAT (" ".T3."T".T44."T".T45."T")	346332
340 FORMAT (" ",T3."[",T46."[",T95,"[",T22,F9.1,T56,F9.1)	236343
350 FORMAT (" "."3,63("="1)	<u> </u>
360 FCRNAT(" ",T3,83("-"))	356563
370 FORMAT("+".75."LER =".T20.10("-").T15."= ".F7.2.153."=",	<u>_3565</u> 7:
* T56,13("-"),T73,"= ",F7.2)	196943
380 FORMAT ("+".T5."SHEP (3LUE) =".T2J.11("-").T35."= ".F7.2.T53."=".	036793
* T50,10("-"),T73,"= ",F7.2)	336900
390 FORMAT("+", 75, "SMFP (RED) =", T20, 10 ("-"), "15, "= ", F7, 2, T53, "=",	25691
* *56.19("-").T73,"= ",F7.2)	38692
40G FORMAT("+": T5. "SHERQ = ".F7.2." - ".F7.2." = ".F7.2."53.	_166933
* "= ", F7.2," - ", F7.2," = ", F7.2)	13694
\$10 FORMAT("+", T5." IFR =",T20,10 ("-"),T35,"= ",F7.2,T53,"=",	136950
* T50.10("-"),T73,"= ",F7.2) 420	065963 366973
420 FORMAT("+", T5 , "FER =", T20, 10 ("-") , T 35, "= ", F7.2, T53, "=", T59, 10 ("-") , T73, "= ", F7. 2)	18694
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COMMON IA, ID, IP, IENGAG, IT ERFN, IVIS, INCLNT, HINES, CFOF, FSFPO, FPR, 347 1 ATI NE, IFIPST, IRUN, NORD, FPASS, IPAXKV, 347 2 SF(2), FSSF(2), PAGK(2), 347 3 ELMT(90, 2), ALOSS (66, 66), SHOTS (55, 2), CKILL (53, 2), SMOTSV (55, 2) 297 GONG QN/OATA/FOS (69, 2), G2EWS (53, 2), AFOS (12), CPOS (6), ITHEPH (22, 2), 277 1 PSN (6, 2, 2), PLT (15), KEY (171) 347 CCMON/ONE/LFIT (35), ARRAY (90), MYQUF (1024), C (80, 2), AGI, ASCENE, A SECTOR 1 COMMON/OMEF/LFIT (35), AH (90), TYGUF (1024), C (80, 2), AGI, ASCENE, A SECTOR 1 COMMON/OUTPT/CCI (2), IOUT, KING (2), TOTAL (3, 2, 2), 3EGIN (65, 2), NCI 1, 397 PNCI2, GAT LOS (65, 13, 2), CATSUM (11, 2), TYFE (5), 9R TG (13, 10), NGPIG 237 IF (IOUT, LE 0, OR, IOUT, EQ, 5) GO TO 150 247 IF (IOUT, EC 2, OR, ICUT, EQ, 3) GO TO 110 247 IF (IOUT, EC 3, OR, ICUT, EQ, 3) GO TO 110 247 GO TO 150 247 GO TO 150 347 130 WRITE (6, 120) TYPE (IOUT), ACI 340//) 347 GO TO 150 347 130 WRITE (6, 140) TYPE (IOUT), CCI 347 140 FORMAT ("", A10, " CUTPUT FCR CI ", A10, " THR CUGH CI ", A10//) 247 150 RETURN 247	CDMON IA, ID, IP, IENGAG, IT ERFN, IVIS, INCLNT, MINES, CFPF, FSFPP, FPR, 347G 1 ATINE, IFIPST, IRUN, NORD, FPASS, IPAXKV, 3571 2 SF(2), FSSF(2), PAGK(2), 3471 3 ELBT(30, 2), ALOSS (66, 66), SHOTS (55, 2), CKILL (53, 2), SMOTSV (55, 2) 3471 COMMON/OATA/FPS (83, 2), G2EMS (53, 2), AFOS (12), CPOS (6), ITMESH(22, 2), 3471 COMMON/ONE/LFIT (35), ARRAY (90), MYSUF (1024), C (80, 2), AGI, ASCENE, ASECT 3471 COMMON/THREE/IHIST (35), AH (90), IYSHF (1024), C (80, 2), AGI, ASCENE, ASECT 3471 COMMON/THREE/IHIST (35), AH (90), IYSHF (1024), C (80, 2), AGI, ASCENE, ASECT 3471 COMMON/THREE/IHIST (35), AH (90), IYSHF (1024), C (80, 2), AGI, ASCENE, ASECT 3471 COMMON/THREE/IHIST (35), AH (90), IYSHF (1024), C (80, 2), AGI, ASCENE, ASECT 3471 COMMON/THREE/IHIST (35), ARRAY (90), MYSUF (1024), C (80, 2), AGI, ASCENE, ASECT 3471 COMMON/THREE/IHIST (35), ARRAY (90), MYSUF (1024), C (80, 2), AGI, ASCENE, ASECT 3471 COMMON/THREE/IHIST (35), ARRAY (90), MYSUF (1024), C (80, 2), AGI, ASCENE, ASECT 3471 COMMON/THREE/IHIST (35), ARRAY (90), MYSUF (1024), C (80, 2), AGI, ASCENE, ASECT 3471 COMMON/THREE/IHIST (35), ARRAY (90), MYSUF (1024), C (80, 2), AGI, ASCENE, ASECT 3471 COMMON/THREE/IHIST (35), ARRAY (90), MYSUF (1024), C (80, 2), AGI, ASCENE, ASECT 3471 COMMON/THREE/IHIST (35), ARRAY (90), MYSUF (1024), C (80, 2), AGI, ASCENE, ASECT 3471 COMMON/THREE/IHIST (35), ARRAY (90), MYSUF (1024), C (80, 2), AGI, ASCENE, ASECT 3471 COMON/THREE/IHIST (35), ARRAY (90), MYSUF (1024), C (80, 2), AGI, ASCENE, ASECT 3471 COMON/THREE/IHIST (35), ARRAY (90), MYSUF (1024), C (80, 2), AGI, ASCENE, ASECT 3471 COMON/THREE/IHIST (35), ARRAY (90), MYSUF (1024), C (80, 2), AGI, ASCENE, ASECT 3471 COMON/THREE/IHIST (35), ARRAY (90), MYSUF (1024), C (80, 2), AGI, ASCENE, ASECT 3471 COMON/THREE/IHIST (35), ARRAY (90), MYSUF (1024), C (80, 2), AGI, ASCENE, ASECT 3471 COMON/THREE/IHIST (35), ARRAY (90, MYSUF (1024), C (80, 2), AGI, ASCENE, ASECT 3471 COMON/THREE/IHIST (35), ARRAY (90), MYSUF (1024), C (80, 2), AGI, ASCENE, ARRAY (90), MY		
1 ATIME.IFIPST.IRUN.NORD.FPASS,IPAXKV. 2 SF(2).FSSF(2).PAGK(2). 3 ELWT(40,2).ALOSS(66.66).SHOTS(95.2).CKILL(93.2).SHOTSV(95.2) 2 ORM QN/QATA/F9S(80,21,C2EWS(93.2).AFOS(12).CPOS(6).ITHEPM(2C,2). 1 PSN(6,2,2).PLT(19).KEY(171) 2471 CCMMON/ONE/LFIT(35).ARRAY(90).MYQUF(1026).C(80,2).AGI.ASCENE.ASECT0ATI COMMON/THREE/IHIST(35).AH(90).IY9UF(1026).C(80,2).AGI.ASCENE.ASECT0ATI COMMON/OUTPT/CCI(2).IOUT.KING(2).TOTAL(3,2,2).3EGIN(65.2).NCI1. 2971 PNCI2.GATLOS(65.13.2).CATSUM(11.2).TYFE(5).PRIG(10.10).N89IG 2972 IF(IOUT.LE.D.OR.IOUT.GE.5)GO TO 150 2972 IF(IOUT.EG.2.OR.ICUT.EQ.3)GC TO 110 2972 IF(IOUT.GT.3)GO TO 130 2972 APITE(6.100) TYPE(IOUT).ACI.ASECT 297 FORMAT("1",A10," OUTPUT FCR CI- ",A10," : SEC*OR- ",F6.2//) 2972 110 MRITE(6.120) TYPE(IOUT).ACI 2973 120 FORMAY("1",A10," CUTPUT FCR CI- ",A10//) 2972 130 MRITE(6.120) TYPE(ICUT).CCI 130 MRITE(6.140) TYPE(ICUT).CCI 140 FORMAT("1",A10," OUTPUT: CI- ",A10," THRCUGH CI- ",A10//) 2973 150 RETURN	1 ATIME, IFIPST, IRUN, NORD, FPASS, IPAXKV, 2 SF(2), FSSF(2), PAGK(2), 3 ELWT (30, 2), ALOSS (66, 66), SHOTS (55, 2), CKILL (53, 2), SMOTSV (55, 2), 2971. CQMM QN/QATA/FPS (80, 21, C2EMS (53, 2), AFOS (12), CPOS (6), ITMEPM (20, 2), 2971. 1 PSN (6, 2, 2), PL (15), KEY (172)		
2 SF(2),FSSF(2),PACK(2), 3 ELMT(80,2).ALOSS(66.66).SHOTS(55.2),CKILL(53.2).SMOTSV(55.2) CQMMQN/OATA/FGS(68,21),GZEMS(53.2).AFOS(12).CPOS(6).ITMEPH(22.2).2971 1 PSN (6,2.2).PLT(15).KEY(171) CCMMON/OME/LFIT(35).ARRAY(90).MYQUF(102b).C(80.2).AGI.ASCENE.ASECTBA71 COMMON/THREE/IHIST(35).AH(90).IY9HF(102b).C(80.2).AGI.ASCENE.ASECTBA71 COMMON/JUTPT/CGI(2).IOUI.KINQ(2).TOTAL(3.2.2).3EGIN(65.2).NCI1.2971 P NGI2.GATLOS(65.13.2).CATSUM(11.2).TYFE(5).PRIG(13.10).NEPIG 2372 IF(10UT.LE.D.OR.IOUT.GE.5)GO TO 150 1F(10UT.GO.Z.OR.ICUT.EG.3)GO TO 110 2472 IF(10UT.GT.3)GO TO 130 PHITE(6.100) TYPE(10UT).AGI.ASECT 100 FORMAT("1",A10," QUTPUT FCR CI-",A10," : SEC*OR-",F6.2//) 110 WRITE(6.120) TYPE(10UT).AGI 120 FORMAY("1",A10," CUTPUT FCR CI-",A10//) GO TO 150 130 WRITE(6.120) TYPE(1CUT).CGI 130 WRITE(6.140) TYPE(1CUT).CGI 140 FORMAT("1",A10," QUTPUT: GI-",A10," THRCUGH CI-",A10//) 150 RETURN	2 SF(2),FSSF(2),PACK(2), 3 ELMT(30,2),ALOSS(66.66),SMOTS(55.2),CKILL(53.2),SMOTSV(55.2) COMMON/DATA/FOS(63.2),GSEMS(53.2),AFOS(12),CPOS(6),ITMEPM(22.2), 3771 1 PSN(6,2,2),PLT(15),KEY(171) CCMMON/ONE/LFIT(35),ARRAY(90),MY8UF(1026),C(80,2),AGI,ASCENE,ASECTJA773 COMMON/THREE/IHIST(35),AH(90),IY9HF(1026) COMMON/THREE/IHIST(35),AH(90),IY9HF(1026) COMMON/THREE/IHIST(35),AH(90),IY9HF(1026) OS711 COMMON/JUTPT/CCI(2),IOUT,KINQ(2),TGTAL(3,2,2),3EGIN(65,2),NCI1, 33711 PNCI2,GATLOS(65.13.2),CATSUM(11.2),TYFE(5),9RTG(13,10),N89IG IF(IOUT,LE.0.OR.IOUT,GE.6)GO TO 150 IF(IOUT,LE.0.OR.IOUT,GE.6)GO TO 150 MAITE(6.100) TYPE(IOUT),ACI,ASECT 100 FORMAT("1",A10," GUTPUT FCR CI-",A10," ; SEC*OR-",F6.C//) 1372: 110 MRITE(6.120) "YPE(IOUT),ACI 120 FORMAY("1",A10," CUTPUT FCR CI-",A10//) GO TO 150 1372: 130 WRITE(6.140) TYPE(ICUT),CCI 140 FORMAT("1",A10," GUTPUT; CI-",A10," THRCUGH CI-",A10//) 150 RETURN		
3 ELWT(90,2).ALOSS(66.66).SHOTS(95.2).CKILL(93.2).SHOTSV(95.2) COMMON/DATA/F9S(83,21,C2EMS(53.2).AFOS(12).CPOS(6).ITHEPM(20.2). 2871 PSN(65.2).PLT(15).KEY(171) CCMMON/ONE/LFIT(35).ARRAY(90).MY8UF(1026).C(80.2).AGI.ASCENE.ASECTDATE COMMON/DUTPT/GCI(2).SARRAY(90).TY9UF(1026).C(80.2).AGI.ASCENE.ASECTDATE COMMON/DUTPT/GCI(2).IQUI.KING(2).TOTAL(3.2,2).3EGIN(65.2).NCI1. 1971 PNCI2.GATLOS(65.13.2).GATSUM(11.2).TYFE(5).9RIG(13.10).N89IG 2372 IF(1QUT.LE.0.OR.IQUI.GE.6)GO TO 150 2972 IF(1QUT.EO.2.OR.ICUT.EO.3)GO TO 110 2972 IF(1QUT.EO.2.OR.ICUT.EO.3)GO TO 110 2972 IF(1QUT.EO.2.OR.ICUT.EO.3)GO TO 150 2972 IF(1QUT.EO.3)GO TO 130 2972 MPITE(6.100) TYPE(1QUT).ACI.ASECT 2972 100 FORMAY("1",A10," QUTPUT FCR CI- ",A10," : SECTOR- ",F6.0//) 2972 110 WRITE(6.120) TYPE(1QUT).ACI 2972 121 FORMAY("1",A10," QUTPUT FCR CI- ",A10//) 2972 122 FORMAY("1",A10," QUTPUT FCR CI- ",A10//) 2972 123 WRITE(6.120) TYPE(1CUT).CCI 2972 130 WRITE(6.140) TYPE(1CUT).CCI 2972 140 FORMAT("1",A10," QUTPUT: GI- ",A10," THFCUGH CI- ",A10//) 2972 150 RETURN 2972	3 ELBT(30,2).ALOSS(66.66).SHOTS(55.2).CKILL(53.2).SMOTSV(55.2) 2371. CQMNQN/QATA/F9S(83,21,C2EMS(53,21,AFQS(12),CPOS(6),ITMEPM(20,2). 2371. 1 PSN(6,2,2).PLT(15).KEV(17). CCMMON/ONE/LFIT(35).ARRAY(90).MYBUF(1026).C(80,2).ACI.ASCENE.ASEC_3771. CQMNQN/THREE/IHIST(35).AH(90).IVBUF(1026).C(80,2).ACI.ASCENE.ASEC_3771. CQMNQN/DUTPT/CCI(2).IQUI.KINQ(2).TQTAL(3,2,2).BEGIN(65,2).NCI1. 3371. IF(10UT.LE.8.OR.IQUI.GE.6.)GQ TO 150 2371. IF(10UT.LE.8.OR.IQUI.GE.6.)GQ TO 150 2372. IF(10UT.GT.3)GO TO 130 2372. IF(10UT.GT.3)GO TO 130 2372. IBG FORMAT("1",A10," GUTPUT FCR CI-",A10," : SEC_OR-",F6.C//) 2372. 108 FORMAT("1",A10," CUTPUT FCR CI-",A10," : SEC_OR-",F6.C//) 2372. 120 FORMAY("1",A10," CUTPUT FCR CI-",A10," : THRCUGH CI-",A10//) 3372. 130 HRIFE(6.120) TYPE(ICUT).CCI 3372. 130 HRIFE(6.120) TYPE(ICUT).CCI 3372. 140 FORMAT("1",A10," GUTPUT: CI-",A10," THRCUGH CI-",A10//) 2372. 150 RETURN		39711
COMMON/OATA/FOS (80, 21, CZEWS (53,2), AFOS (12), CPOS (6), ITHEPM(20,2), 271 1 PSN (6,2,2), PLT (15), KEY (171) CCMON/ONE/LFIT (35), ARRAY (90), MYBUF (1024), C (80,2), AGI, ASCENE, ASECT 3A71 COMMON/PREE/IHIST (35), AH (90), IYBUF (1024) **NGIZ, GATLOS (65, 13, 2), CATSUM (11, 2), TGTAL (3, 2, 2), 3EGIN (65, 2), NCI1, 3971 **NGIZ, GATLOS (65, 13, 2), CATSUM (11, 2), TYFE (5), 9k IG (13, 10), NBPIG 3371 IF (10UT.LE.0.OR.ICUT.GE.6)GO TO 150 1F (10UT.GO.2.OR.ICUT.EQ.3)GO TO 110 1F (10UT.GO.3)GO TO 130 1977 MPITE (6, 100) TYPE (10UT), ACI, ASECT 100 FORMAT (11, A10, 0UTPUT FCR CI- 4, A10, 5SECTOR- 5, F6, C//) 3972 110 WRITE (6, 120) TYPE (10UT), ACI 120 FORMAY (11, A10, CUTPUT FCR CI- 4, A10, 5SECTOR- 7, F6, C//) 3972 130 WRITE (5, 140) TYPE (10UT), CCI 130 WRITE (5, 140) TYPE (10UT), CCI 140 FORMAT (11, A10, 0UTPUT; CI- 4, A10, THACUGH CI- 4, A10//) 3972 150 RETURN	CQMNQN/QATA/F9S (8G,21,C?EMS (53,2),AFQS (12),CPOS (6),ITMEPM(2C,2). 2971 1 PSN (6,2,2),PL (15),KEY (17) CCMMON/ONE/LFIT (35),ARRAY (90),MYQUF(1024),C (80,2),AGI,ASGENE,ASECTJA71; COMMON/THREE/INST (35),AH (90),TYSUF (1024) CQMMON/DUTPT/CCT (2),IOUI,KINQ(2),TQTAL(3,2,2),3EGIN(65,2),NCI1, J971; NCI2,GAT LOS(65,13,2),CATSUM(11,2),TYFE (5),9RIG (13,10),NBPIG 2371; IF (10UT.LE.0.CR.IQUT.GE.6)GO TO 150 2972; IF (10UT.E0.2.OR.ICUT.E0.3)GO TO 110 2972; MPITE (6,100) TYPE (10UT),ACI,ASECT 240,000 3972; 100 FORMAT ("1",A10," GUTPUT FCR CI-",A10,"; SECTOR-",F6.C//) 3972; 110 MRITE (6,120) TYPE (10UT),ACI 3972; 120 FORMAY ("1",A10," CUTPUT FCR CI-",A10//) 3972; 130 MRITE (5,140) TYPE (ICUT),CCI 3972; 140 FORMAT ("1",A10," GUTPUT; CI-",A10," THRCUGH CI-",A10//) 2973; 150 RETURN 2973		39712
1 PSN (6,2,2), PLT (15), KEY (171) CCMON/ONE/LFII (35), ARRAY (90), MYQUF (1026), C (80,2), AGI, ASCENE, A SECTORY COMMON/THREE/IHIST (35), AH (90), IY91F (1026) COMMON/THREE/IHIST (35), AH (90), IY91F (1026) COMMON/OUTPT/CCI (2), IOUT, KING (2), TOTAL (3,2,2), 3EGIN (65,2), NCI1, 3971 NCI2, GAT LOS (65,13,2), CATSUM (11,2), TYFE (5), PRIG (10,10), NBPIG 3971 IF (10UT, LE.D. OR. IOUT, EG. 6, 100 TO 150 2472 IF (10UT, LE.D. OR. ICUT, EG. 7) GO TO 150 2472 IF (10UT, EG. 300 TO 130 2472 MPITE (6,100) TYPE (10UT), AGI, ASECT 3472 GO TO 150 3472 120 FORMAT ("", A10, "OUTPUT FCR CI-", A10, " ; SECTOR-", F6, C//) 3972 GO TO 150 3472 120 FORMAT ("", A10, "OUTPUT FCR CI-", A10//) 3472 130 WRITE (6, 120) TYPE (10UT), CCI 3472 130 WRITE (5, 140) TYPE (10UT), CCI 3472 140 FORMAT ("", A10, "OUTPUT; CI-", A10, "THE CUGH CI-", A10//) 3472 150 RETURN 3472	1 PSN (6,2,2), PLT(15), KEY (171) CCMON/ONE/LFIT(35), ARRAY(90), MYBUF(1024), C(80,2), AGI, ASCENE, ASECT 3771 COMMON/THREE/IHIST(35), AH (90), IYBUF(1024), C(80,2), AGI, ASCENE, ASECT 3771 COMMON/OUTPY/CGI(2), IOUT, KING(2), TGTAL(3,2,2), 3EGIN(65,2), NCI1, 3771 PNCI2, GAT LOS(65,13,2), CATSUM(11,2), TYFE(5), ARTG(13,10), NBPIG 3371 IF (10UT, LE.0, 20R, IOUT, GE.6) GO TO 150 9372 IF (10UT, GT.3) GO TO 130 9372 HPITE(6,100) TYPE(10UT), AGI, ASECT 9372 100 FORMAT("1", A10, "0UTPUT FCR CI-", A10, "1 SECTOR-", F6.C//) 3772 110 MRITE(6,120) TYPE(10UT), ACI 3972 120 FORMAY("1", 413, "CUTPUT FCR GI-", A10//) 3972 130 WRITE(6,140) TYPE(1CUT), CCI 3972 140 FORMAT("1", A10, "0UTPUT CI-", A10, "THRCUGH CI-", A10//) 3972 150 RETURN 3973		
COMMON/THREE/IHIST(35), AH(90), IY91F(1024) COMMON/JUTPT/CCI(2), IOUT, KING(2), TOTAL(3,2,2), 3EGIN(65,2), NCI1, 3971 * NCI2, GATLOS(65,13,2), CATSUM(11,2), TYFE(5), 9RIG(13,10), NGPIG IF(IQUT.LE.0.OR.IQUT.EC.3)GO TO 150 2472 IF(IQUT.EC.2.OR.ICUT.EC.3)GO TO 110 2473 IF(IQUT.EC.3)GO TO 130 401F(66,100) TYPE(IQUT), ACI, ASECT 100 FORMAT("1", A10, " QUTPUT FCR CI- ", A10, " : SEC*OR- ", F6.2//) 3972 110 WRITE(6,120) TYPE(IQUT), ACI 120 FORMAY("1", A10, " CUTPUT FCR CI- ", A10//) 3972 GO TO 150 3973 130 WRITE(6,140) TYPE(ICU*), CCI 140 FORMAT("1", A10, " QUTPUT: CI- ", A10, " THFCUGH CI- ", A10//) CA73 150 RETURN	COMMON/THREE/IHIST(35), AH (90), IY9"F (1024) COMMON/THREE/IHIST(35), AH (90), IY9"F (1024) COMMON/THREE/IHIST(35), AH (90), IY9"F (1024) NCI2, CAT LOS (65, 13, 2), CATSUM(11, 2), TYFE (5), 9RTG(13, 10), NBPTG IF (10UT.LE.0.0R.IOUT.GE.6) GO TO 150 IF (10UT.GT.3) GO TO 130 HRITE(6, 130) TYPE(10UT), ACI, ASECT 100 FORMAT("1", A10, " OUTPUT FCR CI-", A10, " ; SEC"OR-", F6.C//) 13772 110 MRITE(6, 120) "YPE(1OUT), ACI 120 FORMAY("1", A10, " CUTPUT FCR CI-", A10//) GO TO 150 13722 130 HRITE(6, 140) TYPE(1CUT), CCI 140 FORMAT("1", A10, " OUTPUT; CI-", A10, " THRCUGH CI-", A10//) 150 RETURN 16733	1 PSN (6,2,2),PLT(15),KEY (171)	99714
COMMON/THREE/IHIST(35),AH(90),IY9UF(1024) COMMON/DUTPT/CCI(2),IOUI,KING(2),TOTAL(3,2,2),3EGIN(65,2),NCI1, 3971 * NCI2,GATLOS(65,13,2),CATSUM(11,2),TYFE(5),9RIG(13,10),N89IG IF(IQUT_LE_0_0,R_IQUT_GE_0_0G TO 150 2472 IF(IQUT_GT_3)GO TO 130 2472 IF(IQUT_GT_3)GO TO 130 2472 IP(IQUT_GT_3)GO TO 150 2472 IP(IQUT_GT_GT_3)GO TO 150 2472 IP(IQUT_GT_GT_GT_GT_GT_GT_GT_GT_GT_GT_GT_GT_GT	COMMON/THREE/IHIST(35), AH (90), IY9"F (1024) COMMON/THREE/IHIST(35), AH (90), IY9"F (1024) COMMON/THREE/IHIST(35), AH (90), IY9"F (1024) NCI2, CAT LOS (65, 13, 2), CATSUM(11, 2), TYFE (5), 9RTG(13, 10), NBPTG IF (10UT.LE.0.0R.IOUT.GE.6) GO TO 150 IF (10UT.GT.3) GO TO 130 HRITE(6, 130) TYPE(10UT), ACI, ASECT 100 FORMAT("1", A10, " OUTPUT FCR CI-", A10, " ; SEC"OR-", F6.C//) 13772 110 MRITE(6, 120) "YPE(1OUT), ACI 120 FORMAY("1", A10, " CUTPUT FCR CI-", A10//) GO TO 150 13722 130 HRITE(6, 140) TYPE(1CUT), CCI 140 FORMAT("1", A10, " OUTPUT; CI-", A10, " THRCUGH CI-", A10//) 150 RETURN 16733	CCMON/ONE/LFIT (35), ARRAY (90), MYBUF(1026), C (80,2), AGI, ASCENE, AS	ECT03715
* NCI2.CATLOS(65,13,2).CATSUM(11,2).TYFE(5).9RIG(13,10).N89IG IF(10UT.LE.D.OR.IQUT.GE.6.)GO TO 150 2472 IF(10UT.GC.3)GO TO 150 2472 IF(10UT.GC.3)GO TO 130 2472 IF(10UT.GC.3)GO TO 130 2472 IF(10UT.GC.3)GO TO 130 2472 IF(10UT.GC.3)GO TO 130 2472 IF(10UT.GC.3)GO TO 150 2472 IF(10UT.GC	**NCI2,CATLOS(65:13.2),CATSUM(11.2).TYFE(5).MRIG(13.10).NBMIG	Common/Three/Ihist(35), Ah (90), IY91F (1024)	03716
IF(IQUT.LE.Q.OR.IQUT.GE.6)GO TO 150 IF(IQUT.ED.2.OR.ICUT.EQ.3)GO TO 110 IF(IQUT.GT.3)GO TO 130 MRITE(6.100) TYPE(IQUT).ACI.ASECT 100 FORMAT("",A10," QUTPUT FCR CI~",A10," : SEC"QR~",F6.0//) 110 MRITE(6.120) TYPE(IQUT).ACI 120 FORMAT("",A10," CUTPUT FCR CI~",A10//) GO TO 150 130 WRITE(6.120) TYPE(IQUT).CCI 130 WRITE(6.140) TYPE(ICUT).CCI 140 FORMAT("",A10," QUTPUT: CI~",A10," THECUGH CI~",A10//) 150 RETURN	IF(IQUT.LE.B.OR.IQUT.GE.6)GO TO 150 IF(IQUT.EQ.2.OR.IQUT.EQ.3)GO TO 110 IF(IQUT.GT.3)GO TO 130 APITE(6.100) TYPE(IQUT) ACI.ASECT 100 FORMAT("1",A10," GUTPUT FCR CI-",A10," : SECTOR-",F6.C//) 101 MRITE(6.120) TYPE(IQUT) ACI 102 FORMAT("1",A10," CUTPUT FCR CI-",A10//) GO TO 150 1372: GO TO 150 3772: 120 FORMAT("1",A10," CUTPUT FCR CI-",A10//) 3772: 130 WRITE(6.140) TYPE(ICUT),CCI 140 FORMAT("1",A10," QUTPUT: CI-",A10," THRCUGH CI-",A10//) 150 RETURN		
IF (I OUT.EQ.2.OR.I CUT.EQ.3) GO TO 110 IF (I OUT.GT.3) GO TO 130 PRITE (6.100) TYPE (I OUT).ACI.ASECT 100 FORMAT ("1",A10," OUTPUT FCR CI-",A10," : SEC OR-",F6.0//) 110 WRITE (6.120) TYPE (I OUT).ACI 120 FORMAY ("1",A10," CUTPUT FCR CI-",A10//) GO TO 150 130 WRITE (6.140) TYPE (I CUT).CCI 140 FORMAT ("1",A10," OUTPUT: CI-",A10," THE CUGH CI-",A10//) 150 RETURN	IF(I QUT.EQ.2.OR.I CUT.EQ.3)GC TO 110		23718
IF(IOUT.GT.3)GO TO 130 MRITE(6.100) TYPE(IOUT).ACI.ASECT 100 FORMAT("1",A10," OUTPUT FCR CI-",A10."; SECTOR-",F6.0//) 110 MRITE(6.20) TYPE(IOUT).ACI 120 FORMAY("1",A10," CUTPUT FCR CI-",A10//) GO TO 150 3.77 130 WRITE(6.140) TYPE(ICUT).CCI 140 FORMAT("1",A10," OUTPUT; CI-",A10," THECUGH CI-",A10//) 150 RETURN 2.77	IF(IOUT.GT.3)GO TO 130 #PITE(6.100) TYPE(IOUT).ACI.ASECT 100 FORMAT("1",A10," OUTPUT FCR CI-",A10," : SEC*OR-",F6.C//)		
#PITE(6.100) TYPE(IOUT).ACI.ASECT 100 FORMAT("1",A10," OUTPUT FCR CI- ",A10," : SEC"OR- ",F6.0//) GO TO 150 110 MRITE(6.120) "YPE(IOUT).ACI 120 FORMAY("1",A10," CUTPUT FCR CI- ",A10//) GO TO 150 3A72 130 WRITE(6.140) TYPE(ICUT).CCI 140 FORMAT("1",A10," OUTPUT: GI- ",A10," THRCUGH CI- ",A10//) 150 RETURN 2A72	HPITE(6.100) TYPE(IOUT) ACI.ASECT 100 FORMAT("1",A10," GUTPUT FCR CI- ",A10," : SECTOR- ",F6.C//) 137.2. 110 MRITE(6.120) "YPE(IOUT) ACI		
100 FORWAT("1",A10," OUTPUT FCR CI-",A10," : SECTOR-",F6.0//) GO TO 150 110 WRITE(6.120) "YPE(IOUT),ACI 120 FORWAY("1",A10," CUTPUT FCR CI-",A10//) GO TO 150 130 WRITE(6.140) TYPE(ICU"),CCI 140 FORWAT("1",A10," OUTPUT: GI-",A10," THECUGH CI-",A10//) 150 RETURN 207	100 FORMAT("1",A10," OUTPUT FCR CI-",A10," : SEC"OR-",F6.C//) GO TO 150 110 WRITE(6.120) "YPE(IOUT).ACI		
GO TO 150 110 MRITE(6.120) "YPE(IQUT).ACI 397 120 FORMAY ("1".A10," CUTPUT FCR CI- ".410//) 397 GO TO 150 130 WRITE(6.140) TYPE(ICU").CCI 387 140 FORMAT("1",A10," QUTPUT: CI- ".A10," THECUGH CI- ".A10//) CA7 150 RETURN 297	GO TO 150 110 WRITE(6.120) "YPE(IOUT).ACI 3972: 120 FORMAY("1".419," CUTPUT FCR CI- ".410//) 3972: 130 WRITE(5.140) TYPE(ICUT).CCI 3472: 140 FORMAT("1",A10," OUTPUT: CI- ".A10," THRCUGH CI- ".A10//) CA72: 150 RETURN 2073		
110 WRITE(6.120) "YPE(IOUT).ACT 120 FORMAY("1".A10," CUTPUT FCR CI- ".A10//) GO YO 150 130 WRITE(6.140) TYPE(ICU").CCT 140 FORMAT("1",A10," OUTPUT: CI- ".A10," THECUGH CI- ".A10//) 150 RETURN 207	110 HRIT E(6,120) "YPE(IQUT).ACI		
120 FORMAY ("1".413," CUTPUT FCR CI- ".410//) GO TO 150 130 WRITE(5.140) TYPE(ICUT), CCI 140 FORMAT("1", A10," OUTPUT: CI- ".A10," THECUGH CI- ".A10//) 150 RETURN 297	120 FORMAY("1",A10," CUTPUT FCR CI- ",A10//) GO TO 150 130 WRIFE(5,140) TYPE(ICUT),CCI 140 FORMAT("1",A10," OUTPUT: CI- ",A10," THRCUGH CI- ",A10//) 150 RETURN 2073		
GO TO 150 130 WRITE(6.140) TYPE(ICUT),CCI 140 FORMAT("1",A10." OUTPUT: GI- ",A10." THRCUGH CI- ",A10//) 150 RETURN 2073	GO TO 150 34721 130 WRIFE(6.140) TYPE(ICUT),CCI 35721 140 FORMAT("1",A10," OUTPUT: CI- ".A10," THRCUGH CI- ".A10//) CA721 150 RETURN 24731	120 FORMAY ("1".A11." CUTPUT FCR CI- ".A10//)	33726
130 WRITE(5,140) TYPE(ICUT), CCI 140 FORMAT("1",A10." OUTPUT: GI- ".A10." THECUGH CI- ".A10//) 150 RETURN 247	138 WRITE(5.140) TYPE(ICUT), CCI 1972(160 FORMAT("1",A10," QUTPUT: CI- ".A10," THRCUGH CI- ".A10//) CA72(150 RETURN 1973)	GO TO 150	39727
140 FORMAT ("1",A10." OUTPUT: GI- ".A10." THRCUGH CI- ".A10//) CA7: 150 RETURN 2073	160 FORMAT("1",A10." OUTPUT: CI- ".A10." THRCUGH CI- ".A10//) CA72' 150 RETURN 2073	130 WRITE(5.140) TYPE(ICUT), CCI	38728
			CA7 29
ENO 337	ENO 3873		24730
		ENO	28731
			

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SUBROUTINE TRACE	19733
	39734
<u>;202,990,909,900,900,900,900,900,900,900,</u>	19735
	38736
A ROUTING WHICH GENERATES SPOUENTIAL TABLES OF LER'S. SMER'S.	09737
AND SHFRD'S FOR FARTIAL GAME OR FULL GAME OUTPUT FILES	18738
	29739
МИНИНИН Баличан динилинакан принины ин на каланы ин кинакана акадагана акадака кала	
	39741
COMMON IA, ID, IP, IENGAG, ITERRN, IVIS, INCUNT, MINES, CFPP, FSFDR, FPR,	38742
1 ATTME. IFTRST, TRUM, NOPO, FMASS, TMAXKV,	38743
2 SF(2),FSSF(2),PACK(2),	35744
3 ELMT(48 .21 .4LOSS (66 .66) .SHOTS (55 . 2) . CKILL (53 . 2) . SHOTS V (55 . 2)	33745
COMMON/DATA/FPS(80.2),CREWS(53.2).A FOS(12),SPOS(6),ITHERM(23.2).	24746
1 PSN (5.2.2) . PLT (15) .KEY (171)	35747
COMMON/ONE/LF IT (35) , ARRAY (90) , M 18UF (1024) . D(80 . 2) . ACI . ASCENE . A SECT	
COMMONZTHREEZIHIST(35), AH (94), IYEUF (1324)	05749
COMMON/OUTPI/CCI(2),IOUT,KIND(2),TOTAL(3,2,2),BEGIN(65,2),NCI1,	39750
• NCT 2 - CATLOS (65 - 13 - 2) - CATSUH(11 - 2) - TYPE (5) - 8° IG(13 - 10) - N8P IG	JA 751
NUME 0	38752
NI=NGI1	05753
WS=4 CIS	04754
N1S=NCT1	28755
NCIL =4	39756
IF(N1.EQ.4)N1=5	0 5757
JOUT=TOUT	05758
CALL NEWPAG	34759
IF(I CUT. EQ. 4) WRITE (6. 110)	09750 08761
IF(10UT.EQ.5) WRITE(6,120)	18762
00 100 I=N1.N2	04763
NCTS = I NUM= NUM + 1	14754
TOUT =4	2476K
CALL XOUT(2)	04756
CALL ACCUP	03757
WRITE(6, 130) NUM, APPAY(NCI2)	13758
CALL RATIOS(2)	18769
IOUT=JOUT	23774
IF (I .NE. N 2) CALL NEHPAG	39771
O CONTINUE	23772
NCI1=N15	34773
NCI2 =N2	29776
RETURN	14775
O FORMATI" SEQUENTIAL LER'S, SHEE'S, AND SHERD'S FOR PARTIAL GAME.	
- "/" NOTE: LER'S BASED ON CUMULATIVE LOSSES FROM BEGINNING OF	
*AMEHILL DIFFER FROM STANDAPO CUTPLT.")	23774
TO FORMATI" SEQUENTIAL LEP'S, SHEP'S, AND SHEPD'S FOR ENTIRE GAME.	
*1	25732
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130 FORMAT(" ENO	*A9LE # ", 12," 8	STATISTICS THROUGH (I ".A1C)	36791 18792
			
			
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APPENDIX N
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